

# Owens Lake Scientific Advisory Panel: Off-Lake Sources of Airborne Dust July Hybrid Meeting



**July 30, 2024**

Location: Hotel Indigo, 899 Francisco St, Los Angeles, CA 90017

Meeting Room: Belasco

## OPEN SESSION

### INTRODUCTIONS

- 9:30 am**      **Welcome and orientation** Ted Russell, Chair
- Welcome, introductions
  - NASEM processes
  - OLSAP's task

### OWENS VALLEY CLIMATOLOGY & HYDROLOGY: PAST, PRESENT, AND FUTURE

- 9:45 am**      **Extremes in Owens Valley (atmospheric rivers, monsoon, drought) and the impacts to Sierra Nevada snowpack and streamflow (15 min presentation + 5 min Q&A)**

Alex Hall, UCLA

- Describe the known variability in California's climate today that affects groundwater and surface water in the Owens Lake basin.
- How is California's climate projected to change over the next 50-100 years and how is this forecasted to impact California hydrology?
- Describe how could climate change affect the Sierra Nevada snowpack

- 10:05 am**      **Paleohydrology and paleoclimatology of Owens Valley watershed (15 min presentation + 5 min Q&A)**

Steve Bacon, DRI

- 10:25 am**      **Groundwater/hydrology in Owens Valley (15 min presentation + 5 min Q&A)**

Victor Harris, Stantec; Saeed Jorat, LADWP

- What do we know about groundwater in the 2-5 km area surrounding Owens Lake? How has groundwater changed in response to extended wet and dry periods in history? What are the long-term trends?
- What is known about vadose zone hydrology and long-term trends?

- 10:45 am**      **Groundwater in Owens Valley (15 min presentation + 5 min Q&A)**  
Wes Danskin, USGS
- What do we know about groundwater in the 2-5 km area surrounding Owens Lake? How has groundwater changed in response to extended wet and dry periods in history? What are the long-term trends?
- 11:05 am**      **Groundwater/hydrology in Owens Valley (15 min presentation + 5 min Q&A)**  
Scott Warner, BBJ Group
- What do we know about groundwater in the 2-5 km area surrounding Owens Lake? How has groundwater changed in response to extended wet and dry periods in history? What are the long-term trends?
  - What is known about vadose zone hydrology and long-term trends?
- 11:25 pm**      **Panel discussion**  
Alex Hall, UCLA; Steve Bacon, DRI; Wes Danskin, USGS; Victor Harris, Stantec; Saeed Jorat, LADWP; Scott Warner, BBJ Group
- 12:00 pm**      **Lunch**
- EMISSION POTENTIAL**
- 1:00 pm**      **Emissions estimation using the PI-SWERL (15 min presentation)**  
Vic Etyemezian, DRI
- Translating PI-SWERL measurements into areal emissions and in the explicit as well as implicit assumptions you need to make.
- 1:15 pm**      **PI-SWERL application at Owens Lake (10 min presentation)**  
Brian Schmid, Yohannes Yimam, Formation
- Applications to Owens Lake and Salton Sea (off-lake area), discuss developing emission rate curves per geomorphic landform, scaling the pi-swerl measurements to the landscape, and Other Technical Methods questions from EPA regarding precision and bias of the instrument.
- 1:25 pm**      **Panel discussion**  
Vic Etyemezian, DRI; Brian Schmid, Yohannes Yimam, Formation
- 1:45 pm**      **Public comment**
- 2:00 pm**      **Adjourn**