Arvin/Lamont Community Air Monitoring Options

Arvin/Lamont CSC Air Monitoring Subcommittee Meeting

October 27, 2021



PM2.5 Monitor How much PM2.5 is in the air?

• Provides real-time hourly PM2.5 concentration measurements





PM2.5 Laboratory Analysis: What type of source emitted or created PM2.5?

- Collected samples sent to laboratory for analysis to determine contribution of various species to overall measured PM2.5 concentration
- Speciation results can help determine which sources may be contributing to overall PM2.5 pollution







VOC Laboratory Analysis What type of source emitted VOCs?

- Collected samples sent to third-party laboratory for analysis to determine various specific VOC detected in atmosphere
- Capable of isolating 86 different VOCs from each air sample





Compact Multi-Pollutant Air Monitoring System

- Combined placed on trailer
- Provides real-time measurement of the following:





Air Monitoring Trailer

- Usually combined with VOC and PM Sampling for lab analysis
- Provides real-time measurement of the following:







Air Monitoring Van

Provides real-time measurement of the following:







Summary of Monitoring Options

	Real Time Reporting	Regulatory Quality	PM2.5	NOx	VOC	Diesel PM	Other Toxics
PM2.5 Monitor	•	•	<				
Compact System with Multiple Monitors	•	•	<	<	Total VOCs	<	BTEX
Large Air Monitoring Trailer	•	•	<	•	VOC Species	<	Additional Toxics, BTEX
Air Monitoring Van		•	•	•		•	BTEX
Low Cost Air Sensors	•		•				
VOC and PM2.5 Speciation			PM2.5 Species		VOC Species		



Next Steps

Today

Feedback and questions on air monitoring options

Before Next Meeting Review air monitoring options

Next Meeting Exercise to place air monitors



Comments/Questions?

