

Air Quality Priority: Fugitive Road Dust

Purpose of Document

The purpose of this document is to summarize the Eastern Coachella Valley (ECV) Community Steering Committee (CSC) air quality concerns and provide potential strategies and actions to address these concerns in the Community Emissions Reduction Plan (CERP). The CSC will determine the final strategies and actions proposed in the CERP. The ECV CERP will be considered for adoption by the South Coast AQMD Governing Board.

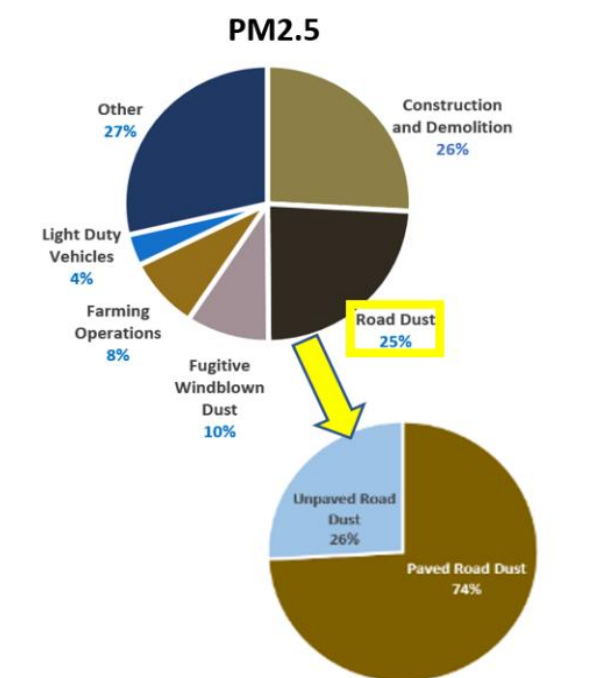
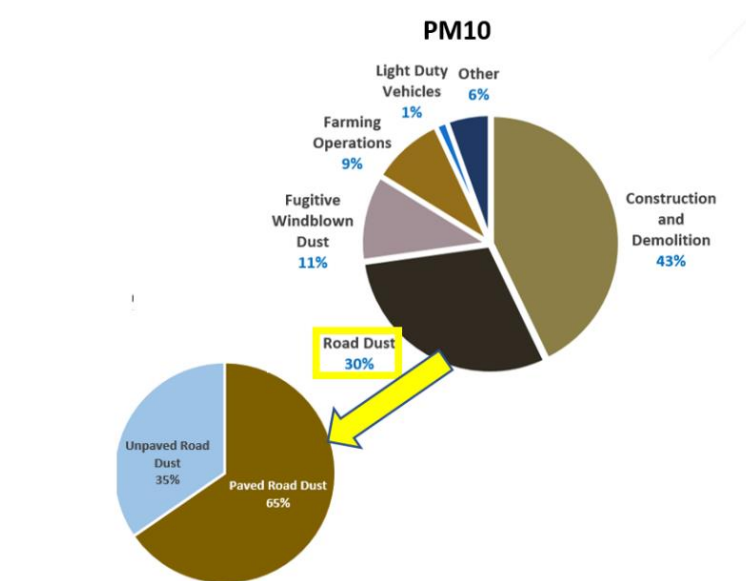
Community Concerns (CC)

The ECV CSC has expressed air quality concerns about Fugitive Road Dust. The CSC concerns about fugitive dust emissions from roads are provided below:

- CC-1 Road dust from unpaved roadways is a major concern. Roadway paving projects implemented in the past have improved particulate matter (PM10) levels in the community.
- CC-2 CSC members are concerned about health effects experienced from high PM10 levels in ECV.
- CC-3 CSC members expressed concerns about dust emissions from off-road vehicles.
- CC-4 CSC members requested additional PM monitoring in ECV.

Road Dust Compared to Other PM Sources in ECV

Emissions Estimates in ECV (tons/day)^{1,2}



¹Road dust information was calculated using the Vehicle Miles Traveled (VMT) reported by the California State Highway System and emissions information from 2017.

²This information was provided to the CSC:

- Handout: <http://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/eastern-coachella-valley/fugitive-road-dust.pdf?sfvrsn=8>
- CSC meeting presentation: <http://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/eastern-coachella-valley/presentation-feb20-2020.pdf?sfvrsn=8>

Potential Strategies and Actions to Address Fugitive Road Dust

Below are potential strategies and actions to address CSC concerns about fugitive road dust in ECV. The final strategies and actions in the proposed CERP will be determined by the CSC. The proposed ECV CERP will be considered for adoption by the South Coast AQMD Governing Board.

Goals	Potential Strategies and Actions
Reduce emissions from fugitive road dust	<ul style="list-style-type: none"> • Pursue a collaborative partnership with the Cities within ECV and the County of Riverside to: <ul style="list-style-type: none"> ○ Restrict unnecessary public access to unpaved roads (e.g., installing signs and physical barriers); ○ Reduce speed limits on unpaved roads; ○ Identify funding to plant natural vegetation on unpaved surfaces no longer being used; ○ Treat unpaved roads with chemical stabilizers to stabilize loose road surface; ○ Improve dust removal from paved roadways (e.g., street sweeping); and ○ Identify funding to expand street sweeping services beyond existing levels <p><i>Community Concern(s) addressed: CC-1, CC-2, CC-3</i></p>
	<ul style="list-style-type: none"> • Pursue a collaborative partnership with homeowners’ associations and the County of Riverside to pave unpaved roads and parks <p><i>Community Concern(s) addressed: CC-1, CC-2</i></p>
	<ul style="list-style-type: none"> • Pursue a collaborative partnership with Comité Civico del Valle to obtain complaint data from their IVAN’s community-based reporting system to address road dust- related air quality concerns within the ECV community <p><i>Community Concern(s) addressed: CC-1, CC-2, CC-3</i></p>
	<ul style="list-style-type: none"> • Conduct outreach to off-road equipment operators on Rule 403 and Rule 403.1, and practices to reduce fugitive dust from roads <p><i>Community Concern(s) addressed: CC-1, CC-2, CC-3</i></p>
	<ul style="list-style-type: none"> • Conduct outreach to the general public on how to file dust complaints <p><i>Community Concern(s) addressed: CC-1, CC-2, CC-3</i></p>
Expand monitoring networks	<ul style="list-style-type: none"> • Identify opportunities to expand the current South Coast AQMD’s PM10 monitoring network in the ECV to: <ul style="list-style-type: none"> ○ Provide real-time PM10 and wind data and inform community members of PM10 levels in the ECV, and if they exceed Federal and/or State standards ○ Track the progress of emission reduction strategies <p><i>Community Concern(s) addressed: CC-1, CC-2, CC-3, CC-4</i></p>
	<ul style="list-style-type: none"> • Seek new opportunities and work with the CSC to expand low-cost sensor deployments to: <ul style="list-style-type: none"> ○ Provide real-time PM10 data

	<ul style="list-style-type: none"> ○ Supplement the PM10 monitoring network in the ECV and cover a larger area in the community, prioritizing areas where the public spends a significant amount of time (e.g. schools and residential areas) and areas close to sources of fugitive dust ○ Co-locate low-cost sensors at monitoring stations with reference PM10 monitors and develop a systematic data calibration and correction protocol to enhance low-cost sensor PM10 data quality <p>Community Concern(s) addressed: CC-1, CC-2, CC-3, CC-4</p>
<p>Reduce exposure from fugitive road dust</p>	<ul style="list-style-type: none"> • Conduct community outreach on subscribing to air quality alerts using the South Coast AQMD app to check air quality information (e.g., high wind advisories, air quality index, and air quality forecasts) <p>Community Concern(s) addressed: CC-2</p>
	<ul style="list-style-type: none"> • Install air filtration systems at schools, community centers, and homes to reduce exposure to dust emissions <p>Community Concern(s) addressed: CC-2</p>
	<ul style="list-style-type: none"> • Identify funding to implement home weatherization projects <p>Community Concern(s) addressed: CC-2</p>