Community Air Initiatives

San Bernardino, Muscoy Community Steering Committee Meeting #5

Thursday, April 18, 2019 San Bernardino, CA



Committee Business

- Finalize Roster
- Meeting Format and Length
 - Survey
- Suggestion Box
- Community Tour

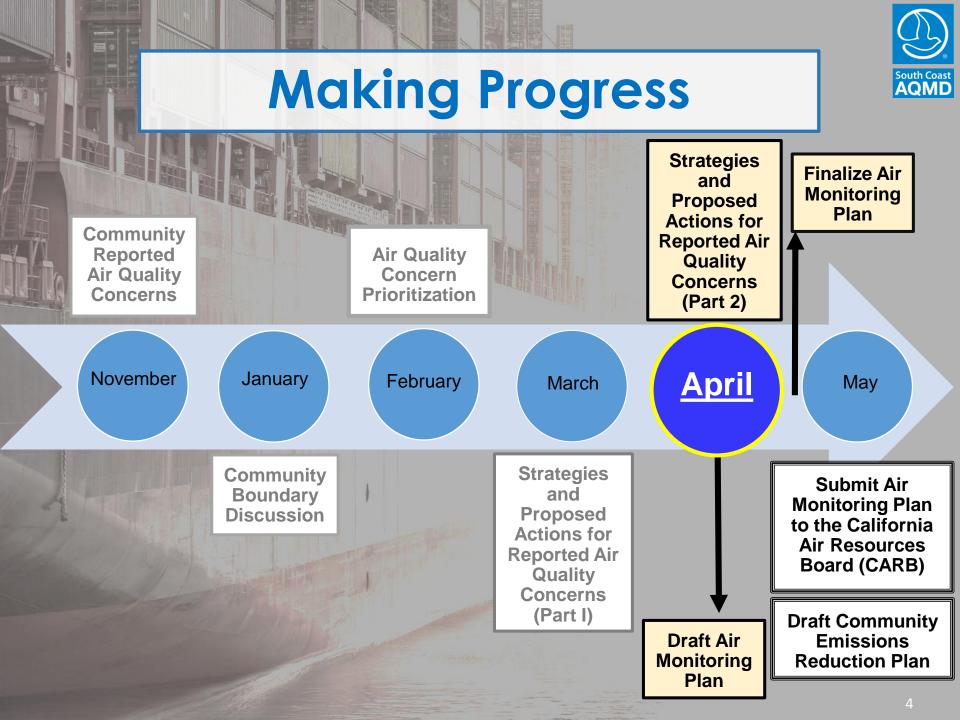




Committee Presenters

- AB 617 is a collaborative effort
- Seeking volunteer Community Steering Committee (CSC) members to present
- Highlight efforts within the San Bernardino, Muscoy (SBM) community that could be part of the AB 617 Community Emission Reduction Plan (CERP)
- Who would you like to hear from?
 - Let us know!



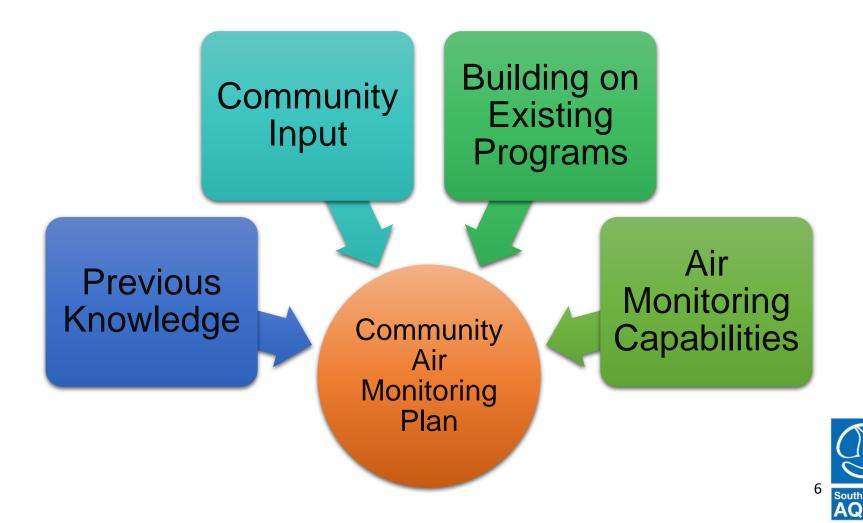


Community Air Monitoring Plan South Coast AQMD

Thursday, April 18, 2019 PAL Charter Academy

Andrea Polidori, PhD Atmospheric Measurements Manager South Coast Air Quality Management District

Considerations for Community Air Monitoring Plan



The Major Elements in the Community Air Monitoring Plan (CAMP)

Background and CAMP Objectives

Existing Monitoring Programs in the SBM Community

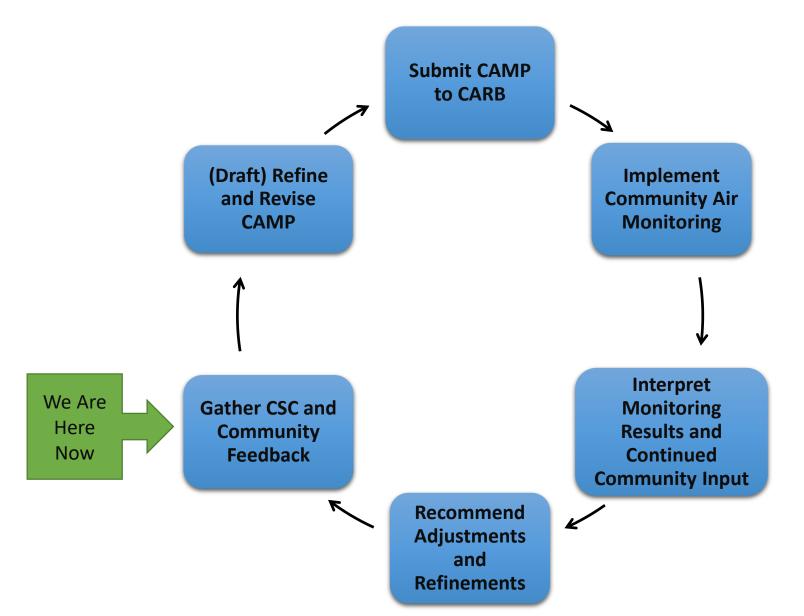
Air Quality Concerns, Pollutants of Interest, Monitoring Equipment, and Monitoring Methods

Community Air Monitoring Approach

Data Reporting

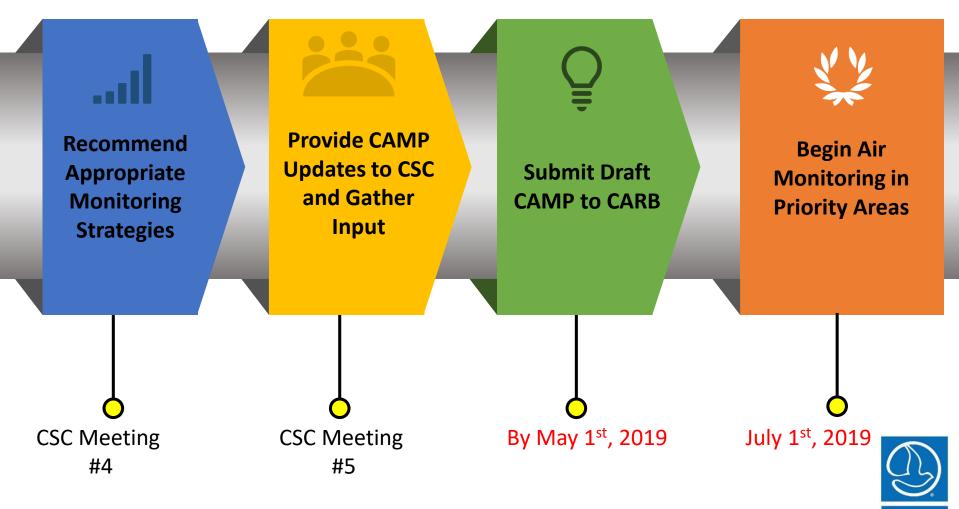


Ongoing CAMP Process





Working with the CSC Group



9 South Co

What are the sources of air pollution?

Apr 18, 2010 - May

South Coast

Apt 18, 2010 - May 18.

43.64% Normal

Main air toxics in the SBM community

Diesel particulate has the highest impact in the community

- Other toxics may have impacts to areas, • if they are close to sources
- Emissions inventories do not include • unknown or unquantified leaks

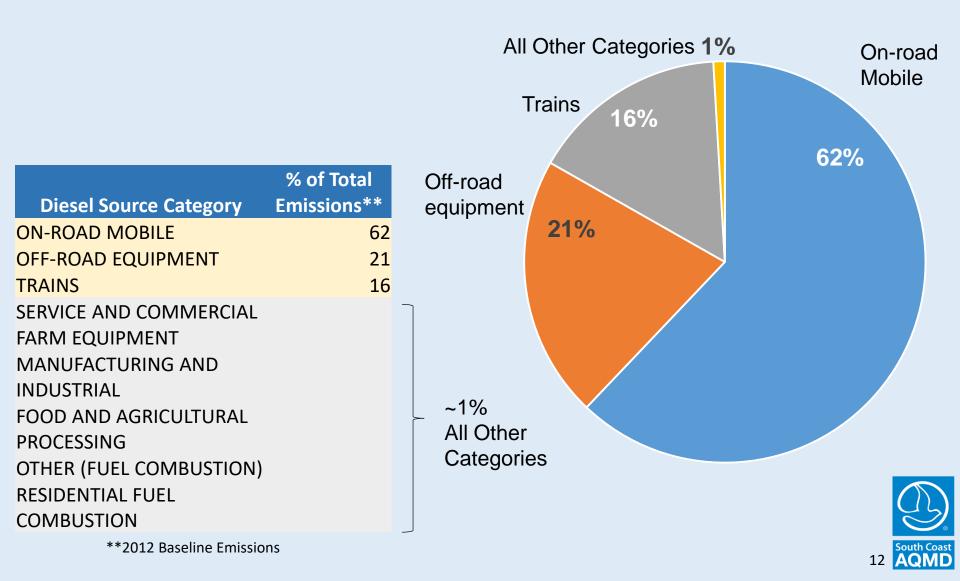
Formaldehyde, 1,3-1.06% butadiene, 3.05% Benzene, 3.58% Hexavalent chromium, 3.81%

Other, 2.92%

Diesel Particulate, 85.59%



What are the sources of diesel particulates in the SBM community?



What are the sources of Nitrogen Oxides (NOx) in the SBM community?

	% of Total	Electric com
NOx Source Category	Emissions**	utilities 2%
ON-ROAD MOBILE	76	Off-road
TRAINS	11	equipment
OFF-ROAD EQUIPMENT	8	8%
ELECTRIC UTILITIES	2	Trains
SERVICE AND COMMERCIAL	2	11%
RESIDENTIAL FUEL COMBUSTION	1	
MANUFACTURING AND INDUSTRIAL		
FARM EQUIPMENT		
OTHER (FUEL COMBUSTION)		
FOOD AND AGRICULTURAL		
PROCESSING		~1%
FIRES		Other
MANAGED BURNING AND DISPOSAL		Categories
OFF-ROAD RECREATIONAL VEHICLES		0
COGENERATIONetc.		

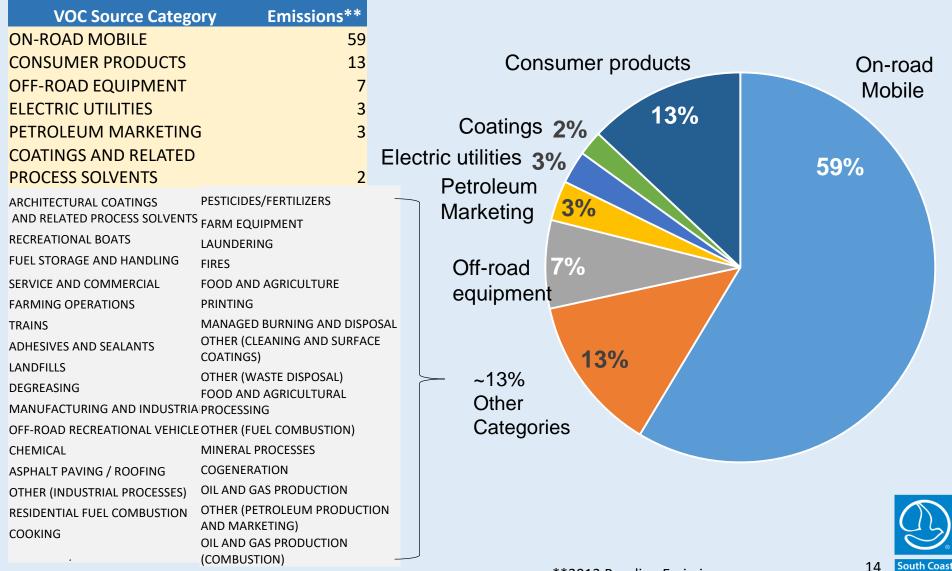
nmercial Residential fuel combustion 76% On-road mobile

Service and

**2012 Baseline Emissions

What are the sources of Volatile Organic Compounds (VOCs) in the SBM community?

% of Total



AQMD

Initial Ideas for Actions in the Community Emissions Reduction Plan (CERP) and Community Air Monitoring Plan (CAMP) – PART II



Province and an and the state of the state o

Prioritized Air Quality Concerns in San Bernardino and Muscoy

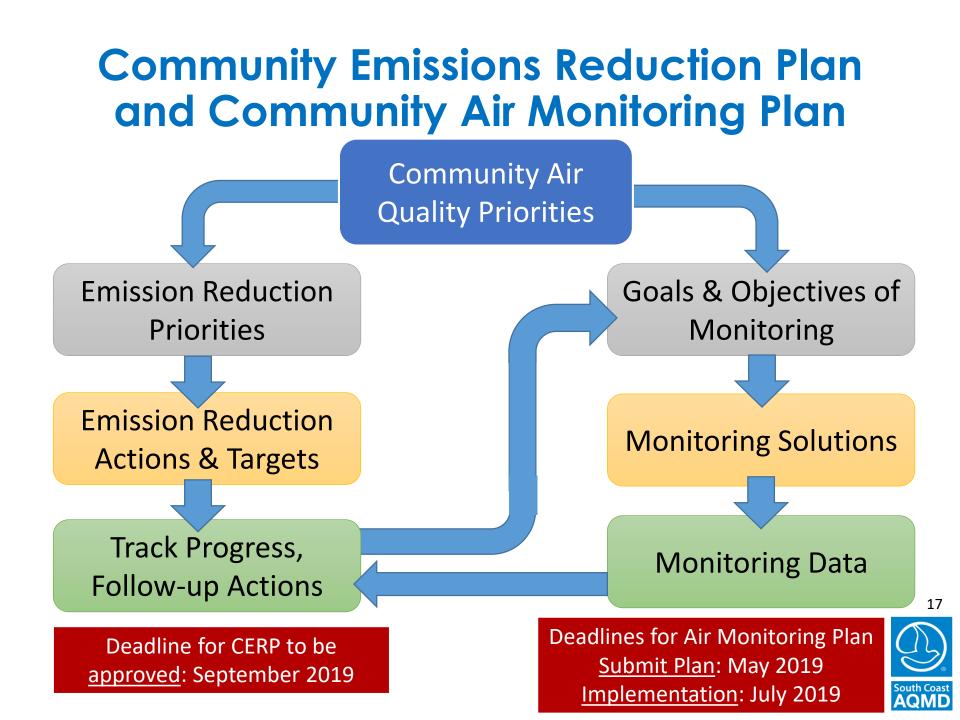
This committee has prioritized these air quality concerns in the San Bernardino and Muscoy community:

- Neighborhood Truck Traffic (including from/to warehouses)
- 2. Railyard
- 3. Warehouses (On-site Emissions)
- 4. Cement Batch Plants
- 5. Omnitrans Bus Yard
- 6. Schools, Hospitals, etc.

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Discussed
in Meeting #4
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Today, we will focus on discussing actions to address these priorities







SBM Meeting #4 Brief Recap of Air Quality Concerns Discussion

Neighborhood Truck Traffic

- Focused enforcement of designated truck routes and idling truck regulations
- Time specific anti-idling regulations (to address off-hour idling)
- On-site accountability to ensure trucks comply with idling
- Education, outreach, and/or training on truck idling and warehouses
- Incentivize or encourage Zero-Emission technology, where available

BNSF Railyard Onsite

- Focused Particulate Matter (PM) and black carbon (BC) monitoring
- Rulemaking for railyards Facility Based Mobile Sources Measures (Indirect Source Rule (ISR)) and CARB regulations
- Incentives: Locomotive (switcher, line-haul), cargo handling equipment replacements



* See meeting summary for more details

Warehouse (On-site Emissions) Initial CERP and CAMP Ideas

Monitoring:

- Fenceline monitoring to characterize air pollution activities
- Identify impacted community areas nearby
- Data could support future
 enforcement action if necessary

Incentives:

- Electrify forklifts, transportation refrigeration units (TRUs) and other on site diesel-powered equipment, where applicable
- Charging and/or fueling infrastructure for on-site equipment

Collaboration

- Encourage buffer zones between warehouses and residents
- Encourage solar power generation
- Encourage warehouses to build loading docks away from residents' homes
- Infrastructure needs, collaboration with public utilities/Public Utilities Commission (PUC)/California Energy Commission (CEC) and local ordinances

Rules, Regulations, and Agreements

- Rulemaking for warehouses- Facility Based Mobile Sources Measures (Indirect Source Rule (ISR))
- CEQA Mitigation Fund



Cement Batch Plants

Initial CERP and CAMP Ideas

Monitoring:

- Place hexavalent chrome monitors near cement manufacturers
- Add in PM10 monitoring
- Provide information for enforcement actions
- Support the CERP (e.g. track progress)
- Provide information for enforcement actions, when appropriate

Enforcement:

Focused enforcement of Rule 403 (Fugitive Dust)

Outreach:

- Fugitive dust outreach materials for community members
- Outreach to operators





Omnitrans Bus Yard

Initial CERP and CAMP Ideas



Monitoring:

- Fenceline monitoring to characterize emissions
- Identify impacted community nearby

Enforcement:

 Utilize the FLIR camera to identify sources of leaks; conduct targeted follow-up investigation

Outreach:

Odor identification outreach materials for community members

Collaboration:

Seek opportunities for minimizing emissions



Schools, Hospitals, Parks, & Community Centers

Initial CERP and CAMP Ideas

Monitoring:

- Look at air pollution levels at and near these places
- Track progress of the emission and exposure reduction programs
- Provide community education and engagement

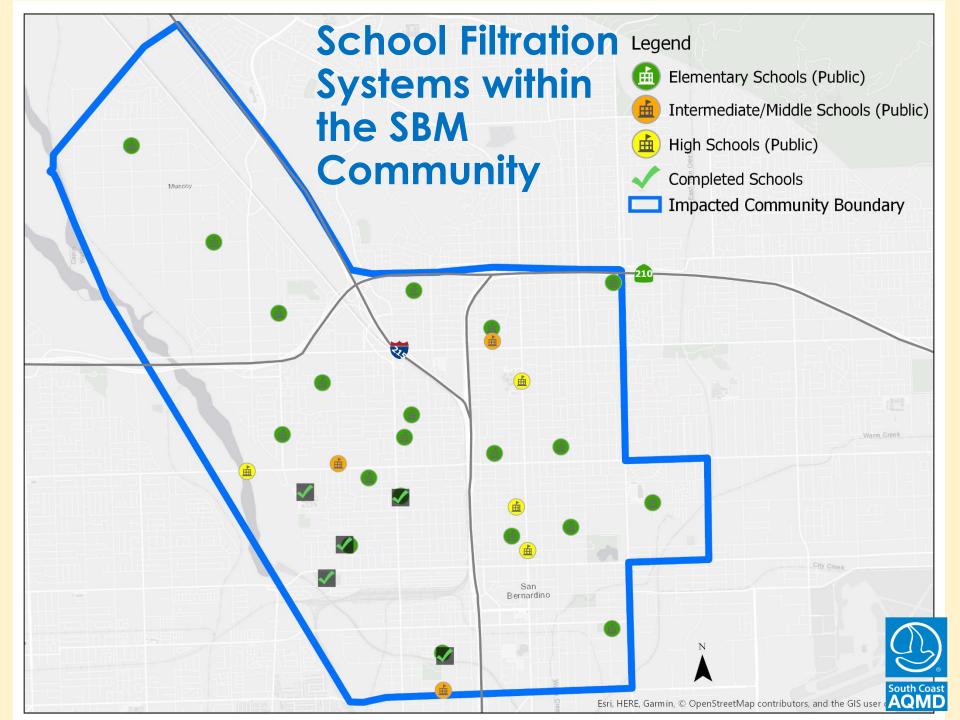
Incentives:

- Installation of air filtration systems at schools
- Upgrade or replace school buses

Collaboration/Outreach:

- Provide schools with information related to air quality advisories
 - Work with Department of Public Health and school districts to develop guidelines





Discussion Questions

- 1. Which of the proposed actions in this air quality concern category are the highest priorities?
- 2. Does the proposed monitoring approach support other actions (e.g. enforcement, emission reductions)?
 - This is your opportunity to provide input to staff for the draft air monitoring plan.
- 3. What additional ideas do you have to address this air quality concern?
- 4. How would you prioritize schools (e.g. age group sensitive receptors, proximity to known emission sources, concentrations of pollutants/toxics, etc.)?
 - To which group would you give the highest priority and why: schools, community centers, hospitals, parks, etc.?



Next steps and important reminders

Future meeting dates and locations:

CSC Meeting #6: May 16, 2019 (6:00 p.m.-8:00 p.m.*) at TBD
 *Depending on CSC input, the meeting may be extended

Likely agenda items for CSC Meeting #6:

- Committee presentations
 - San Bernardino County Department of Public Health
 - City of San Bernardino
- Developing goals for the CERP
- CARB Actions

Technical Advisory Group (TAG):

Primary Member

Ryan Sinclair (Loma Linda University)

Andreas Beyersdorf (California State University, San Bernardino)

Tammy Yamasaki (Southern California Edison)

Is the CSC okay with these topics?

Any additional topics?

Next TAG Meeting: Late Spring 2019

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Thank you
for the hard work!More information on AB 617:
www.aqmd.gov/AB617

Email: AB617@aqmd.gov Follow us @SouthCoastAQMD f 💟 🗿

