

Community Air Initiatives

Wilmington, Carson, West Long Beach
Community Steering Committee
Meeting #5

*Thursday, April 11th, 2019
Long Beach, CA*



Committee Business

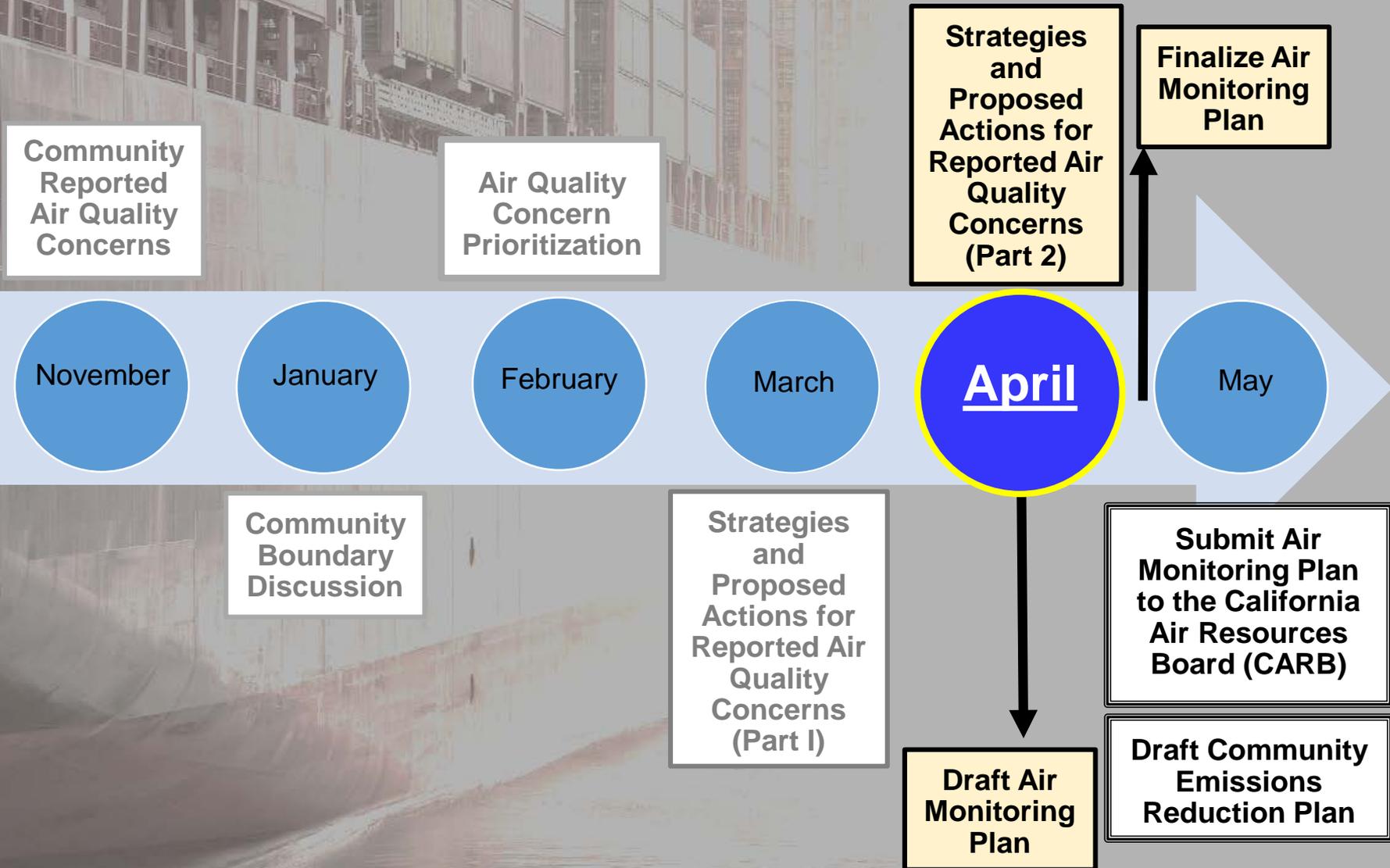
- Charter
- Finalize Roster
- Meeting Format and Length
 - Survey
- Suggestion Box
- Community Tour



Committee Presenters

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

Making Progress



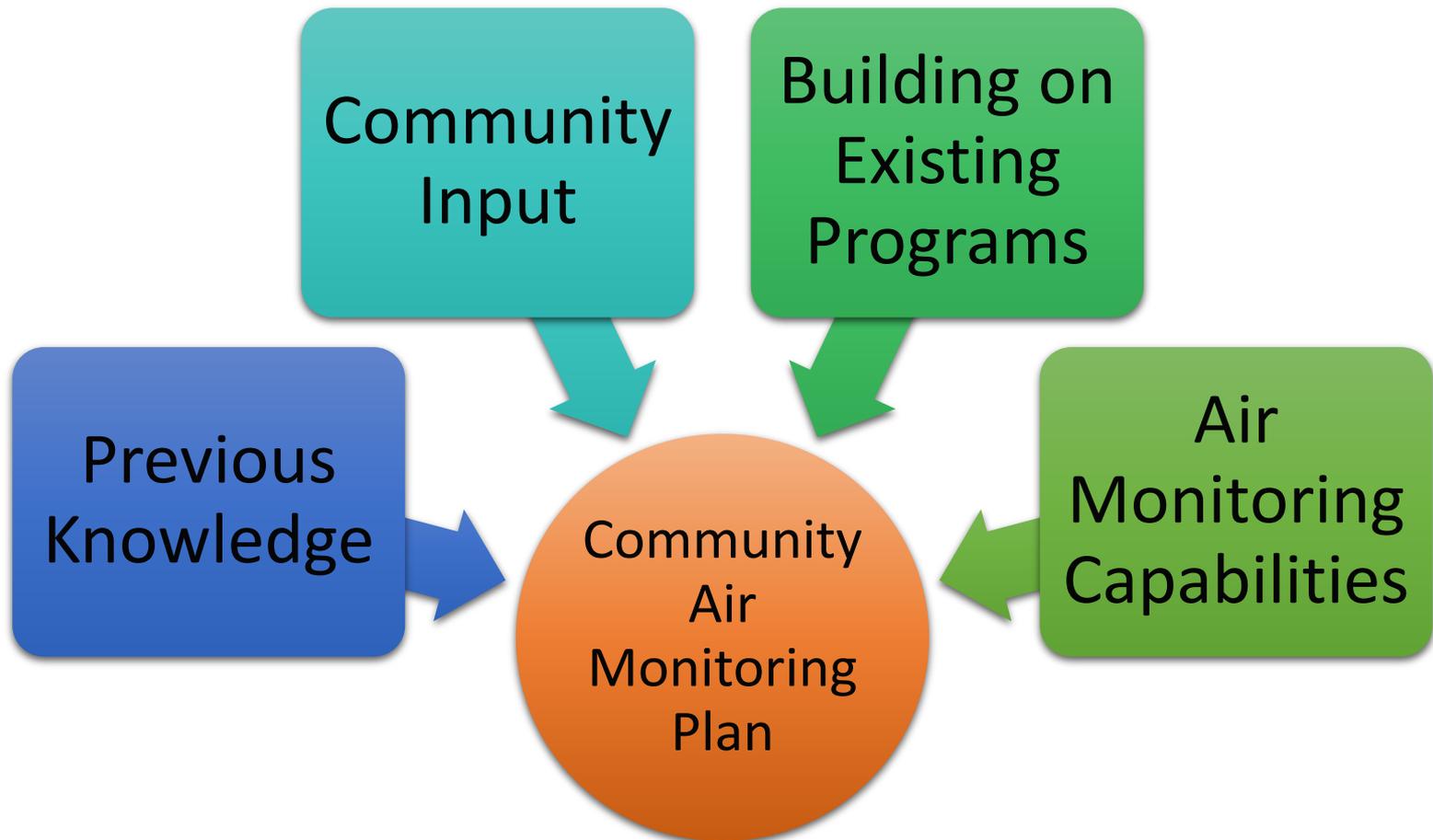


Community Air Monitoring Plan Update

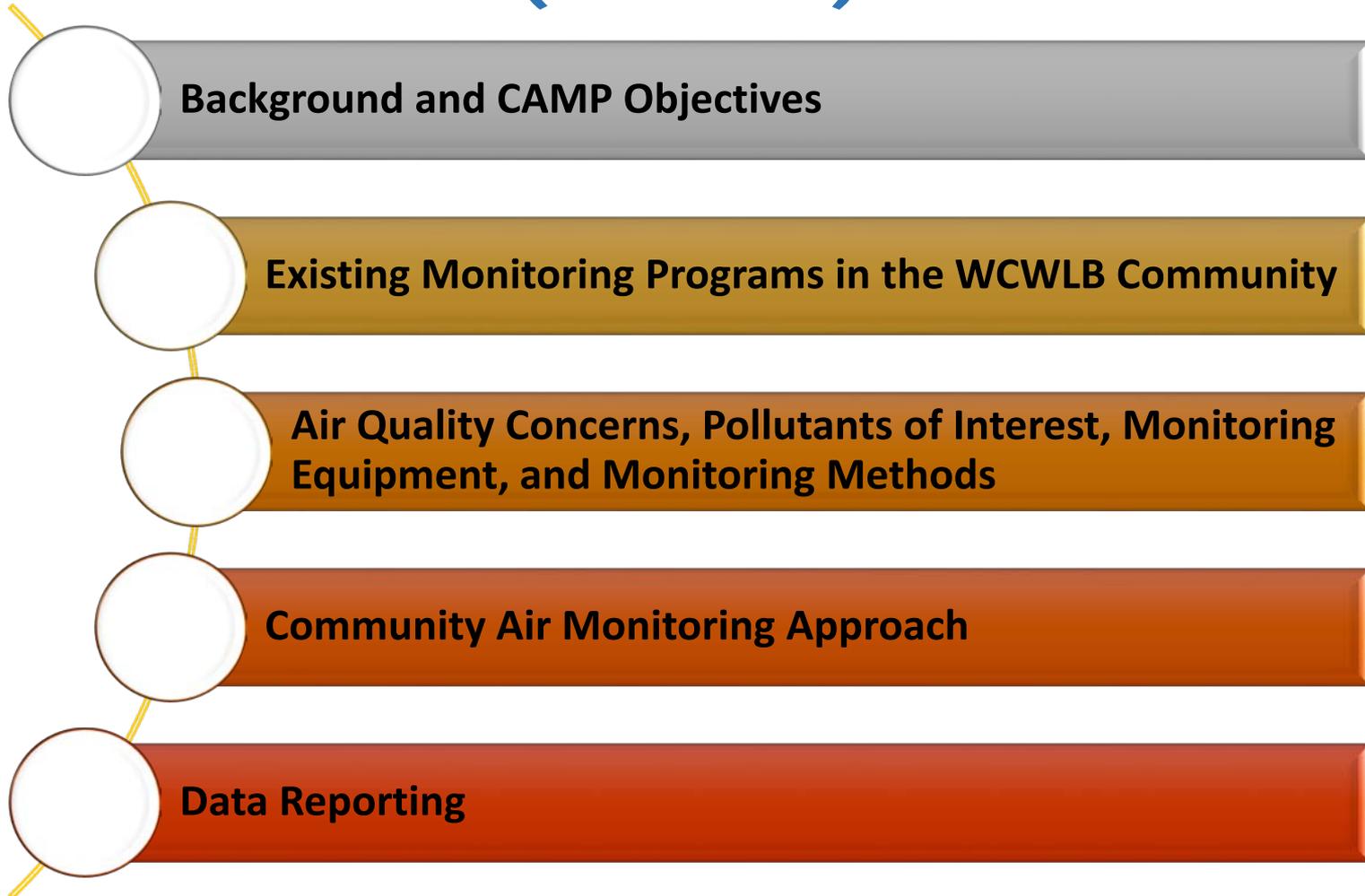
*Thursday, April 11, 2019
Villages at Cabrillo*

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

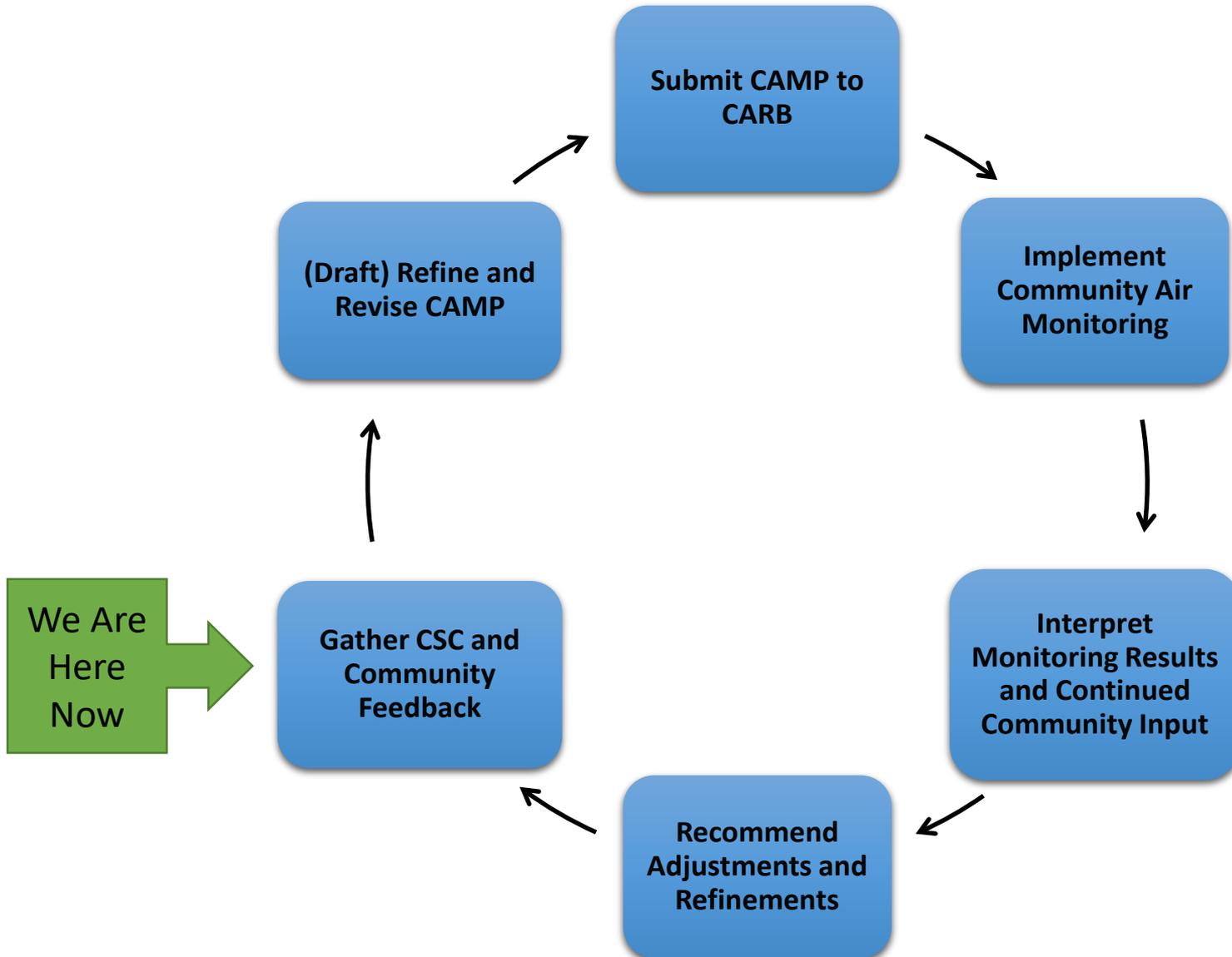
Considerations for Community Air Monitoring Plan



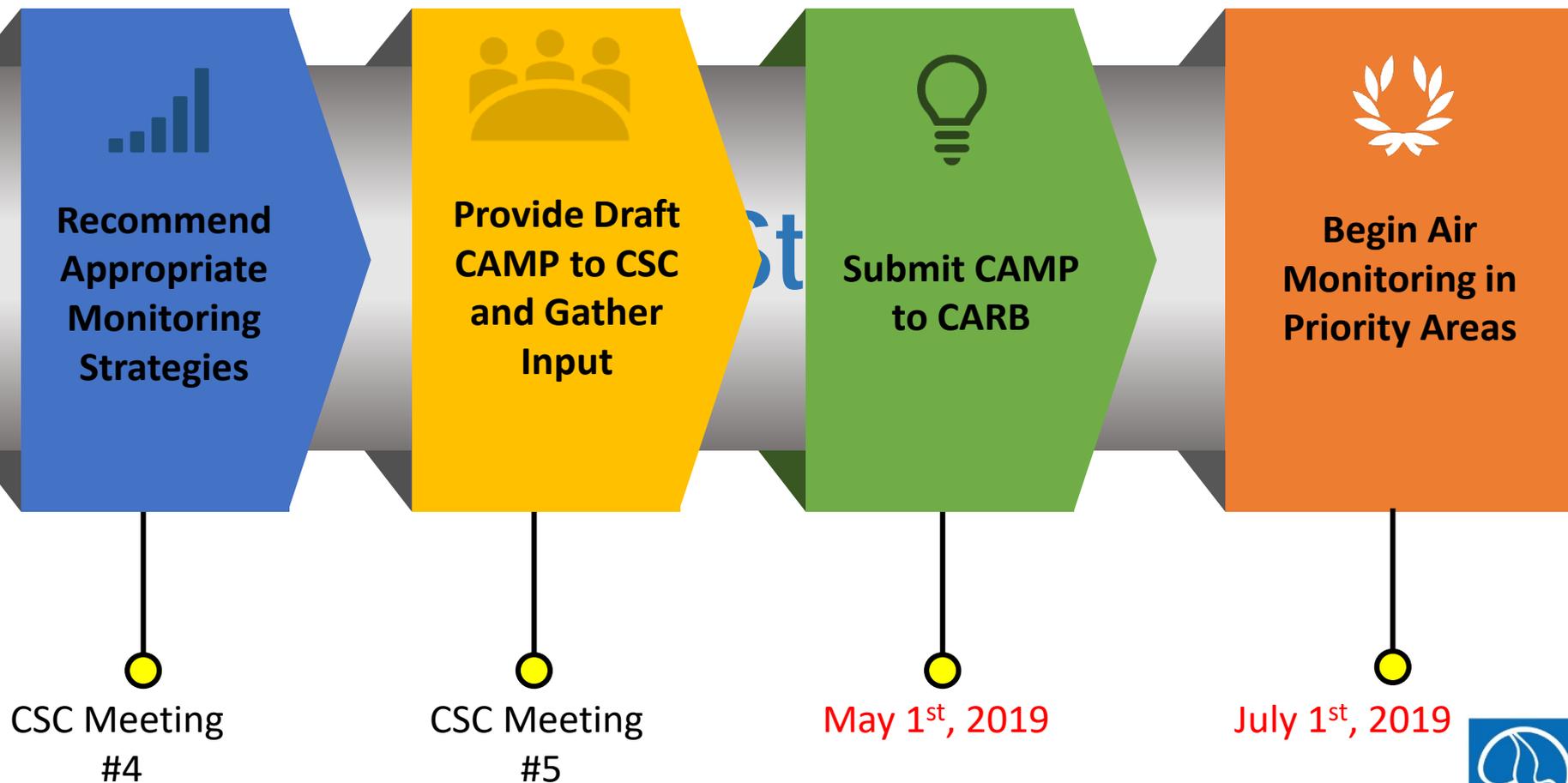
The Major Elements in the Community Air Monitoring Plan (CAMP)



Ongoing CAMP Process



Working with the CSC Group

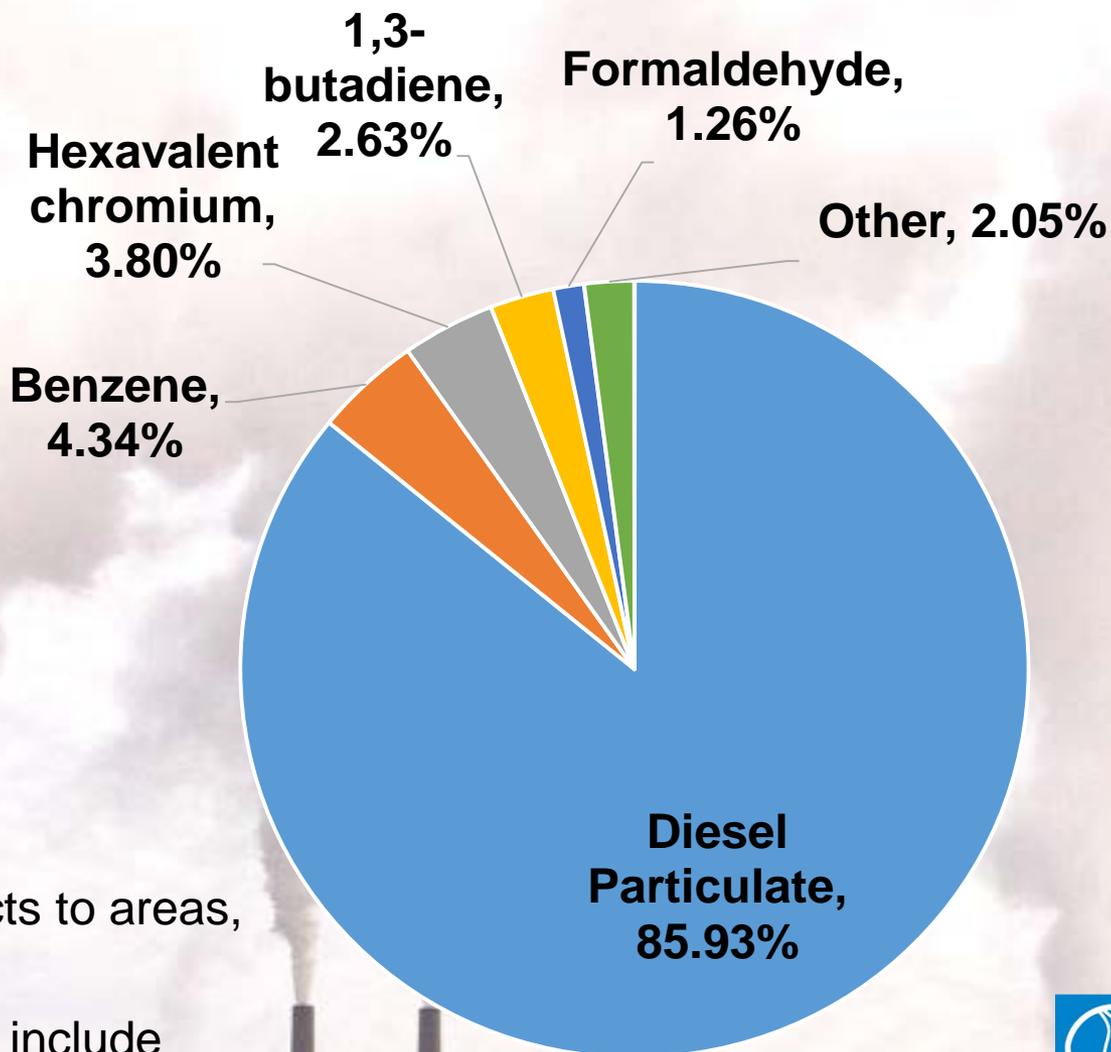


What are the sources of air pollution?



Main air toxics in the WCWLB community

Diesel particulate has the highest impact in the community



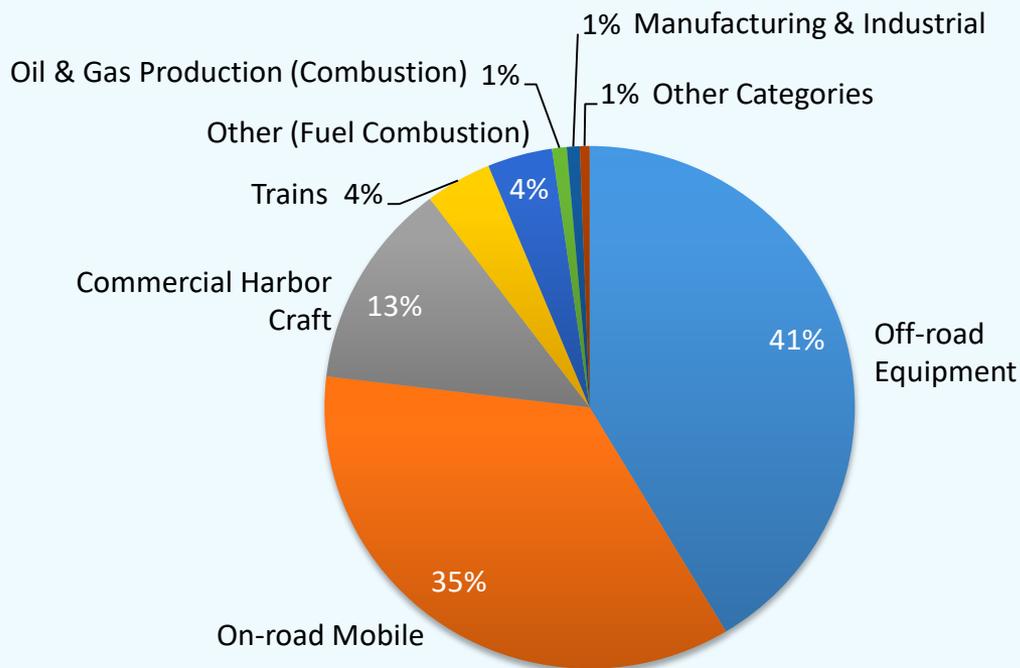
- Other toxics may have impacts to areas, if they are close to sources
- Emissions inventories do not include **unknown or unquantified leaks**

What are the sources of air pollution in the WCWLB community?

Diesel PM Source Category	% of Total Emissions**
OFF-ROAD EQUIPMENT	41%
ON-ROAD MOBILE	35%
COMMERCIAL HARBOR CRAFT	13%
TRAINS	4%
OTHER (FUEL COMBUSTION)	4%
OIL AND GAS PRODUCTION (COMBUSTION)	1%
MANUFACTURING AND INDUSTRIAL	1%
SERVICE AND COMMERCIAL	1% (Other Categories)
FOOD AND AGRICULTURAL PROCESSING	
FARM EQUIPMENT	
RECREATIONAL BOATS	
ELECTRIC UTILITIES	
RESIDENTIAL FUEL COMBUSTION	

**2012 Baseline Emissions

Diesel Particulate Matter (PM) Sources

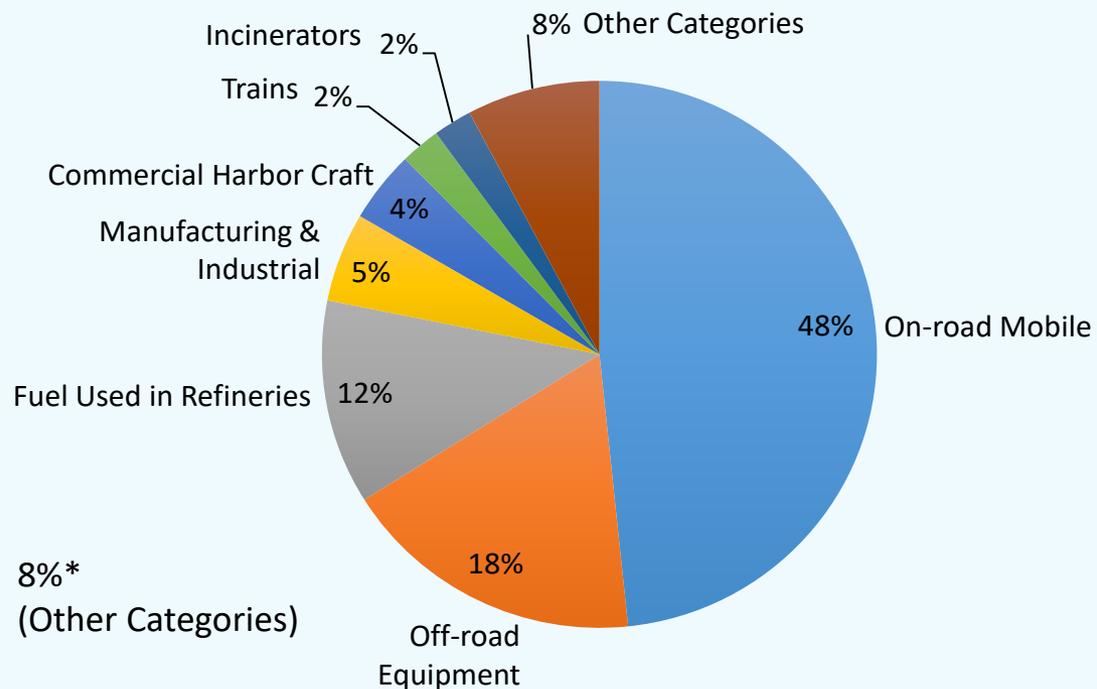


What are the sources of air pollution in the WCWLB community?

NOx Source Category	% of Total Emissions**
ON-ROAD MOBILE	48%
OFF-ROAD EQUIPMENT	18%
FUEL USED IN REFINERIES	12%
MANUFACTURING AND INDUSTRIAL	5%
COMMERCIAL HARBOR CRAFT	4%
TRAINS	2%
INCINERATORS	2%
PETROLEUM REFINING	2%
OTHER (FUEL COMBUSTION)	2%
RECREATIONAL BOATS	1%
SERVICE AND COMMERCIAL	1%
RESIDENTIAL FUEL COMBUSTION	1%
OIL AND GAS PRODUCTION (COMBUSTION)	1%
ALL OTHER CATEGORIES ARE LESS THAN 0.5% INDIVIDUALLY	1%

**2012 Baseline Emissions

Nitrogen Oxide (NOx) Sources



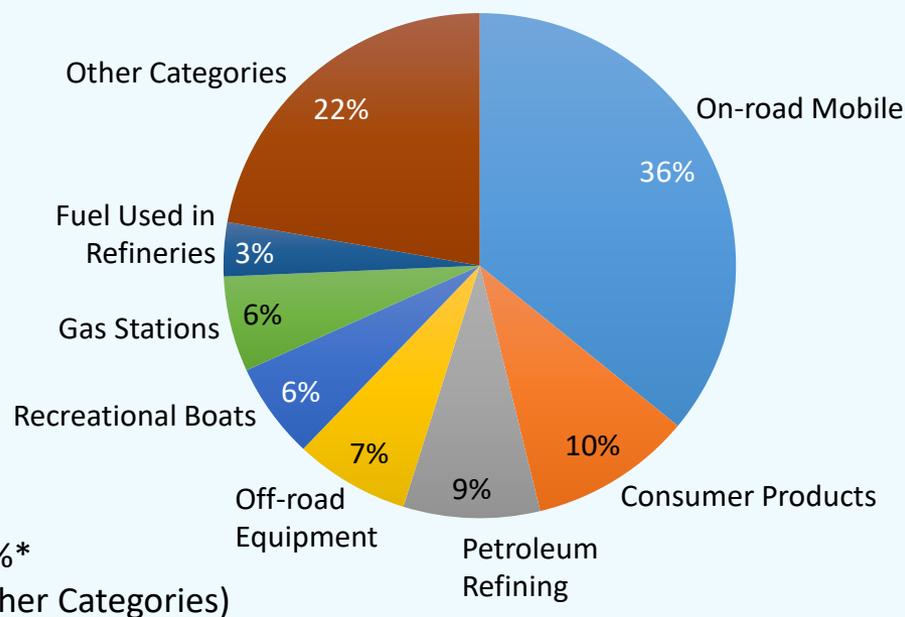
*Numbers may not add up due to rounding

What are the sources of air pollution in the WCWLB community?

VOC Sources	% of Total Emissions**
ON-ROAD MOBILE	36%
CONSUMER PRODUCTS	10%
PETROLEUM REFINING	9%
OFF-ROAD EQUIPMENT	7%
RECREATIONAL BOATS	6%
GAS STATIONS	6%
FUEL USED IN REFINERIES	3%
COATINGS AND RELATED PROCESS SOLVENTS	3%
OIL AND GAS PRODUCTION	3%
CHEMICAL	3%
MANUFACTURING AND INDUSTRIAL DEGREASING	2%
OTHER (INDUSTRIAL PROCESSES)	2%
ARCHITECTURAL COATINGS AND RELATED PROCESS SOLVENTS	2%
OTHER (WASTE DISPOSAL)	1%
FUEL STORAGE AND HANDLING	1%
SERVICE AND COMMERCIAL	1%
ALL OTHER CATEGORIES ARE LESS THAN 0.5% INDIVIDUALLY	3%

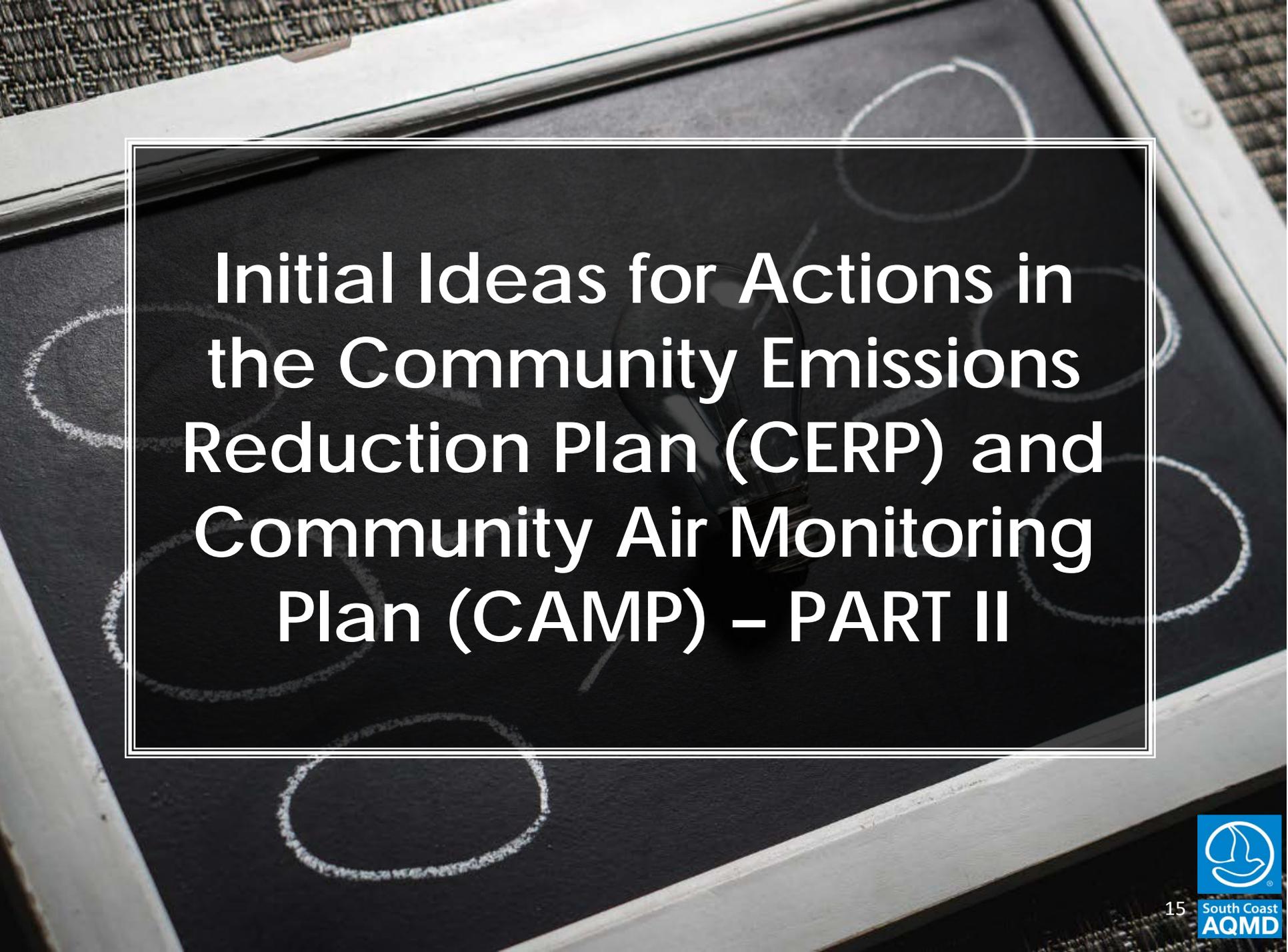
**2012 Baseline Emissions

Volatile Organic Compound (VOC) Sources



22%*
(Other Categories)

*Numbers may not add up due to rounding

A chalkboard with a lightbulb in the center and several circles drawn around it with chalk. The text is overlaid on the board.

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

Prioritized Air Quality Concerns in Wilmington, Carson, West Long Beach

This committee & public participants have prioritized these Air Quality Concerns in this community:

1. Refineries
2. Ports
3. Truck Traffic

Discussed in Meeting #4

4. **Oil Drilling/Production**
5. **Railyards (On-site emissions)**
6. **Schools, etc.**

Today, we will focus on discussing actions to address these priorities

Community Emissions Reduction Plan and Community Air Monitoring Plan



Deadline for CERP to be approved:
September 2019

Air Monitoring Plan deadlines
Submit Plan: May 2019
Implementation: July 2019

WCWLB Meeting #4

Brief Recap of Air Quality Concerns Discussion

Refineries

- Better public notifications and accurate reporting (schools, public, residents)
- Collaborate with Department of Public Health
- Prioritize sources with higher emissions and cancer risks
- Command and control regulations
- Fenceline monitoring and community monitoring
- Focus on flare events

Ports

- Real-time emissions data
- Accountability for terminals to be cleaner
- Enforcement of existing rules regarding vessels/diesel/tank emissions
- Independent audit of ports
- CARB Cargo Handling Equipment Regulation
- Incentives for harbor craft or ships
- Incentives for infrastructure for shore power
- Monitoring of ships at berth

Neighborhood Truck Traffic

- Focused enforcement of designated truck routes and idling truck regulations
- Identification of high traffic corridors

* See meeting summary for more details

Oil Drilling/Production

Initial CERP and CAMP Ideas



Monitoring:

- Find leaks
- Provide information for enforcement actions
- Facilitate better emissions inventory estimates
- Support the CERP (e.g. track progress)
- Provide alerts if high levels found

Enforcement:

- Focused leak inspections
- Follow up on leaks found
- Use of technology: Toxic Vapor Analyzers, FLIR cameras and Remote Terminal Unit (RTU) to assist with investigations
- Complaint heat map to provide areas to focus monitoring

Rules/Regulations:

- Rulemaking to include community notification procedures and improved enforceability (SCAQMD Rules 1148.1/1148.2)

Outreach:

- Odor identification outreach materials for community members

These measures are either new or could have new components based on committee feedback and priorities

Railyard (On-site Emissions)

Initial CERP and CAMP Ideas

Trains and Other Railyard Emissions



Monitoring:

- Fenceline air monitoring
 - Identify activities that may cause high levels of air pollution
 - Look at the levels of pollutants near a possible source
- Community air monitoring
 - Look at levels of pollutants where people live

Rules and Regulations:

- Rulemaking for railyards - Facility Based Mobile Source Measure (Indirect Source Rule)
- CARB rulemaking for Cargo Handling Equipment Regulation
- CARB rulemaking for Drayage Truck Regulation

Incentives:

- Locomotive (switcher, line-haul), cargo handling equipment replacements

These measures are either new or could have new components based on committee feedback and priorities

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:

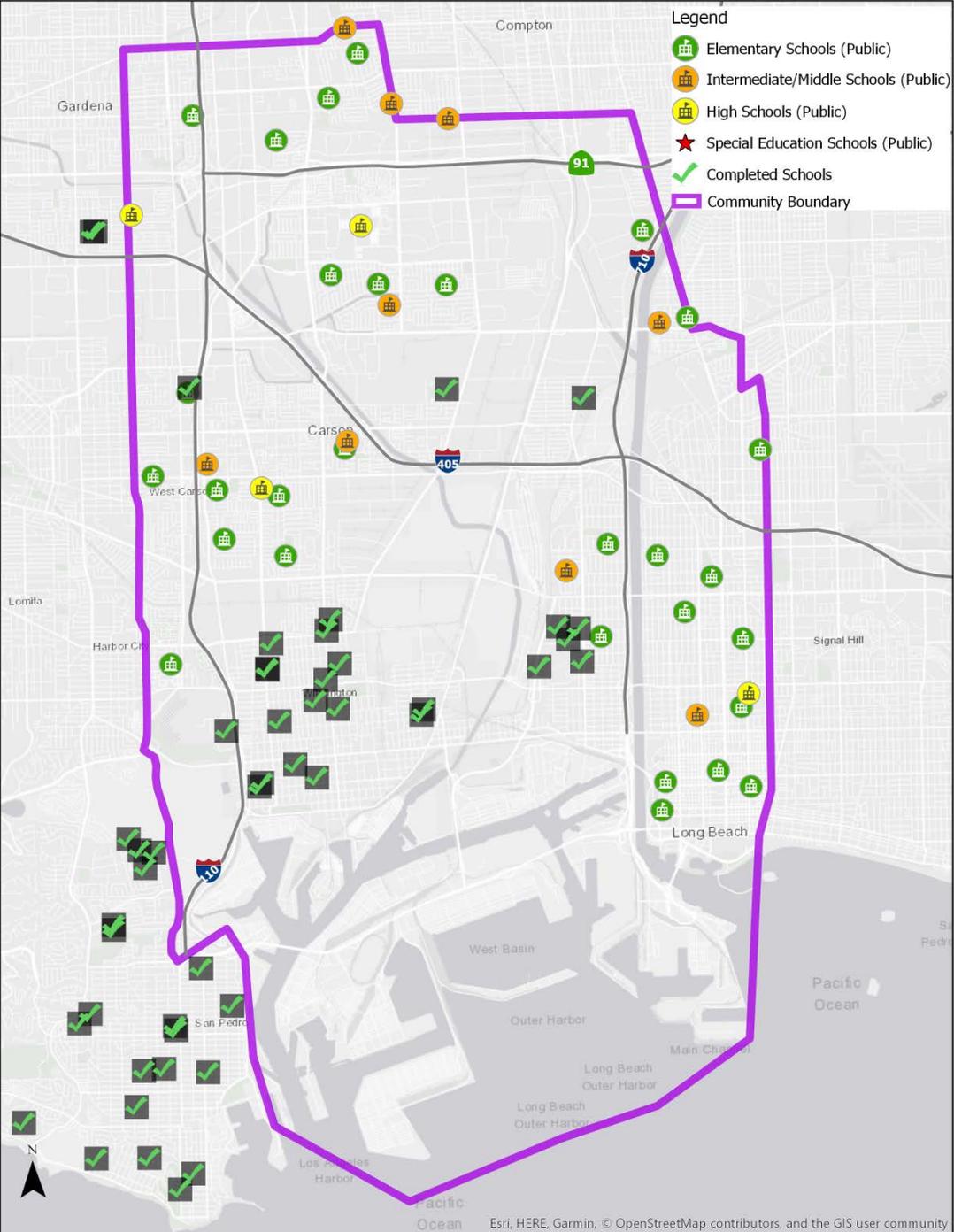
- Installation of air filtration systems at schools
- Upgrade or replace school buses

Collaboration / Outreach:

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

These measures are either new or could have new components based on committee feedback and priorities

School Filtration Systems within the WCWLB Community



Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Activity 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 9 (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
- Developing goals for the CERP
- CARB Actions

Is the CSC okay
with these topics?

Any additional
topics?

Technical Advisory Group (TAG):

Primary Member	Alternate Member
Jesse Marquez (Coalition for a Safe Environment)	Flavio Mercado (Active Resident – Wilmington)
Jill Johnston (USC)	
Uduak-Joe Ntuk (City of Los Angeles)	Tim DeMoss (Port of Los Angeles)

**Next TAG
Meeting:
Late Spring
2019**

Thank you
for the hard work!

More information on AB 617:

www.aqmd.gov/AB617

Email: AB617@aqmd.gov

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