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 Reported Air Quality Concerns

Air Quality Concern Prioritization

November

January

February

March

April

May

Strategies and Proposed Actions for Reported Air Quality Concerns (Part I)

Draft Air Monitoring Plan

Submit Air Monitoring Plan to the California Air Resources Board (CARB)

Finalize Air Monitoring Plan

Draft Community Emissions Reduction Plan
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

Community Input

Building on Existing Programs

Previous Knowledge

Air Monitoring Capabilities

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

- Background and CAMP Objectives
- Existing Monitoring Programs in the WCWLB Community
- Air Quality Concerns, Pollutants of Interest, Monitoring Equipment, and Monitoring Methods
- Community Air Monitoring Approach
- Data Reporting
Ongoing CAMP Process

1. **Submit CAMP to CARB**
2. **Implement Community Air Monitoring**
3. **Interpret Monitoring Results and Continued Community Input**
4. **Recommend Adjustments and Refinements**
5. **(Draft) Refine and Revise CAMP**
6. **Gather CSC and Community Feedback**
7. **We Are Here Now**

The process is ongoing, with feedback and adjustments leading to continued refinement and implementation.
Working with the CSC Group

- Recommend Appropriate Monitoring Strategies
- Provide Draft CAMP to CSC and Gather Input
- Submit CAMP to CARB
- Begin Air Monitoring in Priority Areas

- CSC Meeting #4
- CSC Meeting #5
- May 1st, 2019
- July 1st, 2019
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?

<table>
<thead>
<tr>
<th>Diesel PM Source Category</th>
<th>% of Total Emissions**</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF-ROAD EQUIPMENT</td>
<td>41%</td>
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<tr>
<td>ON-ROAD MOBILE</td>
<td>35%</td>
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<tr>
<td>COMMERCIAL HARBOR CRAFT</td>
<td>13%</td>
</tr>
<tr>
<td>TRAINS</td>
<td>4%</td>
</tr>
<tr>
<td>OTHER (FUEL COMBUSTION)</td>
<td>4%</td>
</tr>
<tr>
<td>OIL AND GAS PRODUCTION (COMBUSTION)</td>
<td>1%</td>
</tr>
<tr>
<td>MANUFACTURING AND INDUSTRIAL SERVICE AND COMMERCIAL</td>
<td>1%</td>
</tr>
</tbody>
</table>
What are the sources of air pollution in the WCWLB community?

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

**2012 Baseline Emissions

*Numbers may not add up due to rounding
What are the sources of air pollution in the WCWLB community?

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

**2012 Baseline Emissions

*Numbers may not add up due to rounding.
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
4. Oil Drilling/Production
5. Railyards (On-site emissions)
6. Schools, etc.

Discussed in Meeting #4

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
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):

<table>
<thead>
<tr>
<th>Primary Member</th>
<th>Alternate Member</th>
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<tbody>
<tr>
<td>Jesse Marquez (Coalition for a Safe Environment)</td>
<td>Flavio Mercado (Active Resident – Wilmington)</td>
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<tr>
<td>Jill Johnston (USC)</td>
<td></td>
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<tr>
<td>Uduak-Joe Ntuk (City of Los Angeles)</td>
<td>Tim DeMoss (Port of Los Angeles)</td>
</tr>
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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