CERP AND CAMP IMPLEMENTATION

- **January 2020**: Submitted CAPP Incentive Fund request
- **April 2020**: OmniTrans Update
- **May 2020**: School Prioritization Activity, Warehouse ISR Update, Railyard ISR Update
- **August 2020**: School Prioritization Results, Warehouse ISR Update, Railyard ISR Update
- **September 2020**: CARB Board Meeting (September 10th)
- **October 2020**: Quarterly CSC Meeting #4
- **November 2020**: Annual Report submission to CARB
AGENDA

- OmniTrans Update
  - Transition to Zero-Emission Equipment
  - Monitoring Update
- Neighborhood Truck Traffic Update
  - Automated License Plate Reader (ALPR) Systems
  - CARB Enforcement
- CERP/CAMP Annual Progress Report
- Technical Advisory Group (TAG) Meeting Update
Omnitrans Update

- Transition to Zero-Emission Equipment
- Monitoring Update
ONGOING MONITORING & INVESTIGATIONS NEAR THE OMNITRANS BUS YARD

UPDATE – 3rd QUARTER 2020

PAYAM PAKBIN, PhD
PROGRAM SUPERVISOR
**CERP COMMITMENTS**

- Chapter 5d, Action 1 – *All these actions are currently ongoing…*

<table>
<thead>
<tr>
<th>Action Description</th>
<th>Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conduct air measurements near the Omnitrans bus yard to identify potential sources of emissions</td>
<td><img src="refresh.png" alt="Refresh" /></td>
</tr>
<tr>
<td>Gather information through facility inspections and outreach follow-up with enforcement actions, as needed</td>
<td><img src="search.png" alt="Search" /></td>
</tr>
<tr>
<td>If persistent elevated levels of pollutants are detected conduct appropriate follow-up investigations</td>
<td><img src="alert.png" alt="Alert" /></td>
</tr>
</tbody>
</table>

AQ Priority: Omnitrans Bus Yard
SUMMARY OF AIR MONITORING AND ENFORCEMENT ACTIVITIES

- **Monitoring Investigation**
  - Mobile monitoring conducted near the Omnitrans bus yard
  - Potential on-site and off-site emission sources were identified

- **Enforcement**
  - On-site facility inspection performed
  - Found to be operating in compliance with air quality rules/regulations at the time of the inspection

- **Next Steps…**
  - Additional investigations on potential on-site and off-site emission sources
MOBILE SURVEYS AROUND OMNITRANS

Five mobile surveys conducted by the South Coast AQMD
• The average methane concentration near Omnitrans is within the typical ambient levels, around 2 ppm
• One location showed persistent elevated levels of methane, suggesting the presence of a potential source

Four mobile surveys conducted by the Aerodyne Mobile Laboratory
• Observed persistent methane levels at the same location identified by the South Coast AQMD mobile platform
• On-site compressed natural gas (CNG) equipment could be a potential above-ground source of thermogenic* methane

* Thermogenic methane is released as a consequence of oil and gas operations
Aerodyne Mobile Laboratory sampled storm drains and manholes in the neighborhood around Omnitrans and near Ramona-Alessandro Elementary school.

Elevated levels of methane and other compounds were detected in the street openings and showed a signature for both thermogenic and biogenic (e.g. from waste decay) sources.

A nearby underground high-pressure distribution pipeline operated by SoCalGas could be a potential below-ground source of thermogenic methane if leaks in the infrastructure were present.
OMNITRANS
BUS YARD
EMISSIONS
INVESTIGATION

Follow-up Investigation

Persistent elevated methane levels lead to a follow-up investigation (ongoing)

• On-site inspection in August 2019
• Notice to Comply issued to obtain records
• No violations of air quality rules/regulations

Inspection & Enforcement Action

Next Steps…

Contact SoCalGas to investigate the presence of a potential leak in their high-pressure pipeline

Next Steps…

All these actions are currently ongoing…

AQ Priority: Omnitrans Bus Yard
HOW DO THE AMBIENT METHANE LEVELS COMPARE TO OTHER AREAS IN THE BASIN?
METHANE LEVELS AROUND OMNITRANS AND IN THE OTHER PARTS OF THE BASIN

Previous methane mobile monitoring campaigns
Purpose:
- Survey large areas
- Detect plumes and emissions
- Identify hotspots and unknown sources

Out of 677 detected methane sources, 2 were in the SBM community

Also see aerial methane measurements conducted by NASA/JPL: methane.jpl.nasa.gov
DISCUSSION

- Comments, Questions, Concerns?

Please contact:
Payam Pakbin
ppakbin@aqmd.gov
909-396-2122
AIR QUALITY PRIORITY: NEIGHBORHOOD TRUCK TRAFFIC

AUTOMATED LICENSE PLATE READER (ALPR) SYSTEMS UPDATE

Robert Dalbeck
Air Quality Specialist
AUTOMATED LICENSE PLATE READER (ALPR) SYSTEMS

- CERP Chapter 5b, Action 3 includes the use of ALPR systems to help reduce emissions from trucks with incentives

- ALPR can be used to:
  - Identify fleet characteristics
  - Identify truck routes
  - Notify truck operators of incentives
South Coast AQMD is developing an ALPR usage and privacy policy

- Seeking advice from other agencies with operational ALPR systems
- Soliciting information from vendors

Working with CSC to prioritize specific locations for ALPR systems

- ALPR location worksheet provided this meeting for CSC input
CSC has expressed that ALPR locations should be in:

- Areas with or generating high truck traffic (e.g., warehouses)
- Areas where trucks travel near residences or schools
- Areas with elevated concentrations of diesel particulate matter (DPM)

* Source: CARB on-road emissions estimations
POTENTIAL ALPR LOCATIONS – NO2 DATA

Mt Vernon Ave

215 freeway and the streets around it
POTENTIAL ALPR LOCATIONS – NO2 DATA
TRUCK RESTRICTIONS MAP

* Source: City of San Bernardino Public Works Department – Traffic Engineering Division
**ALPR DEPLOYMENT LOCATION WORKSHEET**

**Purpose:**
CSC to identify potential ALPR system locations in the SBM community*

**How will this information be used:**
Input collected will help prioritize where the ALPR systems will be deployed

<table>
<thead>
<tr>
<th>Location (intersection, city block, address, etc.)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highland Ave. and Lincoln Dr.</td>
<td>Concerned about truck emissions around residential areas</td>
</tr>
<tr>
<td>3900 block of University Parkway</td>
<td>Many warehouses in this area which may attract trucks from freeway</td>
</tr>
<tr>
<td>I-215 and West 2nd St.</td>
<td>Many trucks coming off the freeways</td>
</tr>
</tbody>
</table>

*There may be restrictions where such systems can be placed*
Questions and/or Comments?

AB617comments@aqmd.gov
California Air Resources Board
Truck Enforcement Efforts in Your Community - CERP Implementation Update

August 20, 2020
San Bernardino - Muscoy
AB 617 Community Steering Committee Meeting
CARB’s CERP Enforcement Commitments for San Bernardino, Muscoy

<table>
<thead>
<tr>
<th>Action</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>(5B: Action 2) Drayage Truck and Truck and Bus Regulations Enforcement</td>
<td>Conduct focused enforcement of our Truck and Bus and Drayage Truck rules</td>
</tr>
<tr>
<td>(5B: Action 1) Idling Enforcement Sweeps</td>
<td>Conduct focused enforcement for idling trucks at a minimum quarterly</td>
</tr>
<tr>
<td>(5B: Action 1) Collaborate with the CSC to inform community members on how to report idling trucks</td>
<td>Engage in two outreach events and provide outreach materials to community members how to report idling trucks</td>
</tr>
<tr>
<td>(5B: Action 2) Provide training on complaint reporting for trucks transiting the community to the CSC and members of the community for effectively reporting complaints about heavy-duty trucks with excessive exhaust emissions in coordination with South Coast AQMD</td>
<td>None specified</td>
</tr>
<tr>
<td>Report back to CSC</td>
<td>Report back to CSC bi-annually (twice a year) and adjust enforcement efforts</td>
</tr>
</tbody>
</table>
Map of Heavy – Duty Diesel Vehicle Enforcement Activities in 2019

San Bernardino - Muscoy
CARB 2019 Focused Enforcement Summary – San Bernardino, Muscoy Community

<table>
<thead>
<tr>
<th>Year/Type</th>
<th>Truck and Bus¹</th>
<th>Drayage</th>
<th>HDVIP (all)²</th>
<th>TRUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019 Field Inspections</td>
<td>203</td>
<td>378</td>
<td>243</td>
<td>13</td>
</tr>
<tr>
<td>2019 Compliant</td>
<td>202</td>
<td>370</td>
<td>236</td>
<td>10</td>
</tr>
<tr>
<td>2019 % Compliance</td>
<td>98%</td>
<td>98%</td>
<td>97%</td>
<td>77%</td>
</tr>
<tr>
<td>Total 2016 – 2018 Inspections</td>
<td>112</td>
<td>1499</td>
<td>249</td>
<td>5</td>
</tr>
<tr>
<td>Total 2016 - 2018 Non-compliant</td>
<td>8</td>
<td>57</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>Total 2016 - 2018 % Compliance</td>
<td>93%</td>
<td>96%</td>
<td>96%</td>
<td>100%</td>
</tr>
</tbody>
</table>

¹SB1 Update: Of 2,783 HHDVs; 149 Non-compliance/NOV letters (126 registration holds, 18 brought into compliance)

²Heavy-Duty Vehicle Inspection Program (HDVIP) covers emissions control labels (ECL), excessive smoking (40% limit lowered to 5% in 2019), and tampering.
Next step(s)?
• Continue sweeping these areas?
• Add/change to new areas?
• Create and distribute flyers on benefits of not idling even for Clean Idle certified trucks?

CARB/South Coast AQMD both conducted at least one sweep
• Fall 2019 and Winter 2020

South Coast AQMD 3 sweeps in 2019
• Observed total 55 trucks; 2 NOVs issued (96% compliance)

South Coast AQMD 2 sweeps (March, June 2020) along Rancho, Mill, Mt. Vernon, Baseline, Rialto, and at Kendall and Palm
• Observed 26 trucks; 18 had Clean Idle stickers; Zero NOVs (100% compliance)

CARB conducted 95 vehicle inspections in 2019, 2 out of compliance (98% compliance rate) in comparison to 17 total vehicle inspections from 2016 – 2018, 1 out of compliance (94% compliance rate)
No Idling Signage Project Status

- Working with South Coast AQMD to better determine how to reach schools
- CARB has newly designed “No Idling” signs for schools
- CARB ordered more “No Idling” street signs in February
- CARB has been in contact with City of San Bernardino to discuss placement of “No Idling” signs in their communities
Reporting Air Pollution Concerns

Spring 2019: Created business card sized “Reporting Air Pollution Concerns” in English and Spanish; Distribute(d) at monthly CSC Meetings; More available from COES@arb.ca.gov

Spring 2020: Created new Community Idling flyer in English and Spanish; More available from COES@arb.ca.gov

Summer/Fall 2020: Working on CARB Community Guide to Rule Enforcement booklet in English and Spanish and YouTube videos on idling and other enforcement issues

Seeking input on where these events should be or how they should look? (Get contact numbers to enforcement agencies? Speak at PTAs? Booth at a community event?)
AB 617 Report Back to Communities on 2019 Enforcement Efforts

- Report Back to South Coast AQMD on CARB 2019 enforcement actions for AB 617 communities
- Include all metrics from CERPs related to enforcement efforts
- Contact Crystal.Reul-Chen@arb.ca.gov for more details and to provide additional feedback
Questions and/or Comments?

AB617comments@aqmd.gov
ANNUAL PROGRESS REPORT

AB 617* requires air districts to annually report the progress of CERP implementation.

Annual reports submitted to CARB for review.

CARB may suggest plan revisions to air districts.

Available online:

*Health and Safety Code §44391.2(c)(7)
OVERVIEW OF ANNUAL PROGRESS REPORT

Report Elements

- Community Profile Updates
- Overview of CERP Framework
- Status of CERP Actions, Goals and Strategies
- Metrics for Tracking Progress
- Qualitative Assessment
- Summary of Key Plan Adjustments
SBM IMPLEMENTATION HIGHLIGHTS

- $1.9 million requested for school air filtration systems
- $300,000 for 21 Low-NOx repower projects at Omnitrans
- $9.3 million invested in 15 off-road equipment unit replacements, and 5 off-road equipment unit repower projects
- Multiple quarterly sweeps for illegal truck idling
- Monitoring and inspections conducted at all Concrete Batch Plants, Asphalt, and Aggregate Plants in SBM
- Multiple mobile air monitoring campaigns throughout community, including near the BNSF railyard and Omnitrans facilities
## SBM CERP Actions

<table>
<thead>
<tr>
<th>Air Quality Priority</th>
<th>Examples of Actions, Goals, and Strategies Required (September – June 2020)</th>
<th>Status of CERP</th>
</tr>
</thead>
</table>
| Neighborhood Truck Traffic | • Conduct truck idling sweeps  
• Develop Indirect Source Rules (ISR) | • 4 enforcement sweeps, 61 trucks inspected, 2 NOVs  
• ISR community workshop for railyard conducted December 2019, initial concepts released, public hearing expected second quarter 2021; Proposed Rule 2305 (ISR for warehouses) preliminary draft rule language released November 2019, public hearing expected first quarter 2021 |
| Railyard | • Conduct air measurements  
• Continue ISR development for railyards | • Monitoring conducted around BNSF railyard mid 2019 to Winter 2019, discussed with CSC  
• ISR community workshop for railyard conducted December 2019, initial concepts released, public hearing expected second quarter 2021 |
| Warehouses | • Develop Indirect Source Rules (ISR) and hold public meeting in Inland Empire to discuss  
• Conduct outreach to support zero emission equipment | • Proposed Rule 2305 preliminary draft rule language released November 2019, public hearing expected first quarter 2021, public meeting in Inland Empire delayed due to COVID-19  
• Provided outreach to existing warehouses |
| OmniTrans | • Conduct air measurements  
• Support transition to zero emission buses | • Monitoring conducted Summer 2019 and ongoing, discussed with CSC  
• Provided two letters of support for grant proposals |
| Concrete Batch, Asphalt Batch, and Rock and Aggregate Plants | • Conduct air monitoring; if needed, follow-up investigations  
• Conduct public outreach on rules and complaint process | • Monitoring conducted Summer 2019, discussed with CSC  
• Provided complaint process information to CSC, outreach event affected by COVID-19 |
| Schools and Community Areas | • Implement Clean Air Rangers Education (CARE) and Why Healthy Air Matters (WHAM) programs at schools  
• Install air filtration systems at schools | • WHAM/CARE affected by COVID-19  
• CAPP fund requested April 2020 for air filtration systems |
Chapter 5a, Table 5a-1 provides baseline for multiple pollutants

2017 is base year

CARB Guidance required targets for future years: 5 and 10 years

Status of targets will be evaluated annually
Emission Reductions Targets

Emissions

<table>
<thead>
<tr>
<th>Emissions</th>
<th>NOx</th>
<th>DPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017 Emissions (tpy)</td>
<td>1140</td>
<td>19.97</td>
</tr>
<tr>
<td>Projected 2024 Emissions Baseline (tpy)</td>
<td>726</td>
<td>8.37</td>
</tr>
<tr>
<td>Emission Reductions from CERP, by 2024 (tpy)</td>
<td>75.1</td>
<td>0.86</td>
</tr>
<tr>
<td>Emission Reductions from CERP, by 2024 (%)</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Projected 2029 Emissions Baseline (tpy)</td>
<td>602</td>
<td>5.95</td>
</tr>
<tr>
<td>Emission Reductions from CERP, by 2029 (tpy)</td>
<td>127.9</td>
<td>0.91</td>
</tr>
<tr>
<td>Emission Reductions from CERP, by 2029 (%)</td>
<td>21</td>
<td>15</td>
</tr>
</tbody>
</table>

*a* Per CARB guidance, the emissions baseline was estimated for 2017, and milestone years 2024 and 2029

*b* Percent calculated based on 2024 emissions baseline

*c* Percent calculated based on 2029 emissions baseline
EMISSION REDUCTIONS TARGETS

• Emission reduction targets established in each CERP (e.g., NOx, DPM, VOCs)

• Staff working with CARB, TAG, and CSC to quantify emission reductions for:
  – AB 617 incentives
  – CARB regulations
  – South Coast AQMD regulations

• Continue to refine metrics for AB 617 emission reductions
TOTAL INVESTMENT IN INCENTIVES

- Future incentive based emission reductions dependent on program funding

Approximate Emission Reductions based on Total Investment

- Total investment in incentives: $9.6 Million
- Emission reductions:
  - NOX: 79.7 tons/year
  - PM: 1.3 tons/year
  - ROG: 2.3 tons/year
ANNUAL PROGRESS REPORT TIMELINE

- **August 13**: Draft report released
- **August 28**: CSC comment deadline
- **September 18**: Stationary Source Committee (Additional public comment)
- **October 2**: Governing Board Meeting
- **Mid-October**: Submit report to CARB staff
- **December 2020**: Report submitted to CARB Board for consideration
Questions and/or Comments?

Please submit by **August 28, 2020**

to [rdalbeck@aqmd.gov](mailto:rdalbeck@aqmd.gov)

909-396-2139

[AB617comments@aqmd.gov](mailto:AB617comments@aqmd.gov)
CAMP IMPLEMENTATION & MONITORING PROGRESS REPORTS

UPDATE – 3RD QUARTER 2020

PAYAM PAKBIN, PhD
PROGRAM SUPERVISOR
Air monitoring activities are ongoing.

Monitoring progress reports provide a status update on these activities.

South Coast AQMD is seeking CSC input on the reports and next steps.
Air monitoring updates for the period of June 2019 to August 2020 is now available online:

http://www.aqmd.gov/ab-617/CAMP/infographics/SBM
PROGRESS REPORTS FOR EACH AIR QUALITY PRIORITY

Progress report on the monitoring actions in the CERP

- Each report contains:
  - Background and objectives of air monitoring
  - Monitoring methods and strategies
  - Results of air monitoring
  - Next steps
  - Comprehensive reports and data interpretation
Questions and/or Comments?

AB617comments@aqmd.gov
Ryan Sinclair
Loma Linda University
Andreas Beyersdorf
Cal State University, San Bernardino
CSC MEMBER STIPENDS

Fabian Wesson
Assistant Deputy Executive Office / Public Advisor
Legislative, Public Affairs & Media
South Coast Air Quality Management District
AGENDA ITEMS FOR NEXT MEETING & CSC MEMBER UPDATES

Agenda Items for Next Meeting
& CSC Member Updates

AB617comments@aqmd.gov
AB617comments@aqmd.gov
THANK YOU

For more information, questions, or suggestions after this meeting:

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South Coast Air Quality Management District
dwong@aqmd.gov
909-396-3046