Clean Communities Plan

*Working Together to Build Cleaner Communities*

*Boyle Heights and San Bernardino Pilot Project*

May 2016
Background

- 2010 Clean Communities Plan approved by the AQMD Governing Board on November 5, 2010
- Builds on current regulatory program
- Places greater emphasis on cumulative impacts and neighborhoods
- Center piece: Two pilot projects
  - San Bernardino
  - Boyle Heights and surrounding area
Objectives of the Clean Communities Plan

- Reduce exposure to toxic emissions
- Address cumulative impacts from multiple sources
- Increase agency coordination
- Improve transparency, communication, responsiveness with the public
- Emphasize community-based solutions
CCP Pilot Study

- Initiated Pilot Study in July 2011
- Stakeholder Working Group
  - Environmental and community, business environmental groups, elected officials, and public agencies
  - Bi-monthly Working Group Meetings for first two years
- Overall approach
  - Community-based
  - Stakeholder input to identify and prioritize air quality related issues
  - Develop solution paths for issues
  - Summarize findings
General Approach to Identify Study Issues

- **Objective:** Identify air quality related issues that were specific to CCP communities
- **Community input key to:**
  - Identify and prioritize study issues
  - Ensure issues appropriately characterized

---

**Input from Stakeholder Working Group and Community Representative Interviews**

**Community Bus Tour**

**Identification and Ranking of Study Issues**
Input from Stakeholders to Identify Study Issues

Input from Stakeholder Working Group and Community Representative Interviews

Community Bus Tour

Identification and Ranking of Study Issues

Input from Stakeholder Working Group and Community Representative Interviews

- Input from community stakeholders key to identify air quality issues
- Individual interviews with key stakeholders
- Working Group members ranked issues
Community Bus Tour

- Toured Boyle Heights and San Bernardino
- Approximately 30 participants
- Provides better insight to community issues

Input from Stakeholder Working Group and Community Representative Interviews

Identification and Ranking of Study Issues
Identifying Study Issues

- Based on input from stakeholders identified eight study issues
- Staff worked with stakeholders to ensure study issues properly characterized
- Working Group Members ranked study issues
## Priority Ranking for Boyle Heights Air Quality Issues

<table>
<thead>
<tr>
<th>Boyle Heights Study Issues</th>
<th>Overall Priority Ranking (1-High, 8-Low)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Quality Assistance in Highly Impacted Areas</strong> – Assist &amp; educate businesses regarding pollution control equipment</td>
<td>1</td>
</tr>
<tr>
<td><strong>Emissions from Diesel Trucks</strong> – Study truck routes within Boyle Heights</td>
<td>2</td>
</tr>
<tr>
<td><strong>Proximity of Community to Freeways and Major Roadways</strong> – Ways to minimize exposure to freeway emissions</td>
<td>3</td>
</tr>
<tr>
<td><strong>Facility Identification</strong> – Investigate unmarked facilities for compliance with AQMD Rules</td>
<td>4</td>
</tr>
<tr>
<td><strong>Rendering Facility Odors</strong> – Investigate ways to minimize odors from rendering</td>
<td>5 (tie)</td>
</tr>
<tr>
<td><strong>Templates for &quot;Model&quot; Air Quality Facilities</strong> – Develop model facility for several industry categories</td>
<td>5 (tie)</td>
</tr>
<tr>
<td><strong>Community Spray Booth</strong> – Investigate potential usage of another spray booth for community members</td>
<td>7</td>
</tr>
<tr>
<td><strong>99 Cents Only Stores Warehouse</strong> – Ways to reduce neighbors’ exposure to DPM emissions from delivery trucks</td>
<td>8</td>
</tr>
</tbody>
</table>
# Priority Ranking for San Bernardino Air Quality Issues

<table>
<thead>
<tr>
<th>San Bernardino Study Issues</th>
<th>Overall Priority Ranking (1-High, 8-Low)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BNSF Rail Yard</strong> – Identify potential strategies to address exposure to diesel particulate matter (DPM) emissions from trucks, trains, and rail yard equipment from the BNSF rail yard.</td>
<td>1</td>
</tr>
<tr>
<td><strong>Warehouses and Distribution Centers</strong> - Identify potential strategies to address community exposure from trucking emissions associated with warehouses in close proximity to residences</td>
<td>2</td>
</tr>
<tr>
<td><strong>Freeway Expansion &amp; Construction</strong> - Identify current traffic studies in study area, and identify potential strategies to address emissions impacts on nearby residents during construction and operation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Concrete Ready Mix Operation</strong> - Identify potential strategies to address dust impacts to nearby high school from plant.</td>
<td>4 (tie)</td>
</tr>
<tr>
<td><strong>Unpermitted Facilities - Auto Body Shop Case Study</strong> - Identify potential strategies to address unpermitted businesses in community and potential solutions to bring unpermitted businesses into regulatory compliance</td>
<td>4 (tie)</td>
</tr>
<tr>
<td><strong>Omnitrans</strong> - Identify potential strategies to address risk of upset at CNG fueling facility expansion due to SBX project</td>
<td>6</td>
</tr>
<tr>
<td><strong>Lack of Green Space, Bike Paths, Centralized Shopping</strong> - Identify potential strategies to address vehicle miles traveled (VMT) and subsequent emissions due to lack of local green spaces, bike paths, and centralized shopping</td>
<td>7</td>
</tr>
<tr>
<td><strong>Rendering Plant</strong> - Identify potential strategies to address odors from rendering plant on Mills Street near rail yard</td>
<td>8</td>
</tr>
</tbody>
</table>
Diesel Sources

• Strategies
  – Funded cleaner diesel trucks (Proposition 1B)
    • 125 cleaner diesel trucks in Boyle Heights
    • 250 cleaner diesel trucks in San Bernardino and surrounding areas
  – Replaced 25 cleaner diesel trucks at Ace Beverage (AQMD & EPA Partnership)
  – Provided $1.4M to replace 40 older diesel trucks with electric trucks at UPS in San Bernardino
  – Replace old 6 switch locomotives at BNSF San Bernardino railyard
    • $3,000,000 to repower 4 locomotives under Prop 1B funding
    • $1,900,000 to repower 2 locomotives under EPA Diesel Emission Reduction Act (DERA) funding

Applicable Study Issues
  – Diesel Trucks (Issue #2 BH)
  – BNSF Rail Yard (Issue #1 SB)
Diesel Exhaust Exposure

• Strategies
  – Partnered with SoCalGas to weatherize homes near roadways and other diesel sources
    • 268 homes in Boyle Heights
    • 806 homes in San Bernardino
  – Air filtration for schools (Air Shed Grant and Mother’s of East LA)
    • Eight schools and one Child Development Center in Boyle Heights
    • Five schools and one recreation center in San Bernardino

• Applicable Study Issues
  – Proximity of Roadways (Issue #3 BH)
  – BNSF Rail Yard (Issue #1 SB)
  – Freeway Construction and Expansion (Issue #3 SB)
Warehouse and Distribution Centers

- Strategies
  - ~450 cleaner diesel trucks funded warehouses in San Bernardino and Western Riverside Counties
  - 99 Cent Only Warehouse (Near Boyle Heights)
    - Funded 24 cleaner diesel trucks (Source: Prop. 1B Funding)
    - Replaced 40 older diesel trucks with CNG trucks (American Recovery and Reinvestment Act funding)
    - Provided consulting services on CNG fueling station design
  - Funded 62 cleaner diesel trucks Dependable Highway Express (Near Senior housing in Boyle Heights)
  - Stater Bros Warehouse (San Bernardino)
    - 2010 truck fleet
- CEQA

Applicable Study Issues
- Diesel Trucks (Issue #2 BH)
- 99 Cent Only Warehouse (Issue #8 BH)
- Warehouses and Distribution Center (Issue #2 SB)
Unpermitted Facilities

Strategies

– Conducted SCAQMD “No-fault” inspection using Small Business Assistance Unit
– Provided regulatory compliance information
– Educate businesses about air pollution controls, pollution prevention, and other options that can minimize or eliminate toxic air contaminants or odor nuisances
– Develop a “model air quality facility” for one or two industry categories

• Applicable Study Issues
  – Facility Identification (Issue #4 BH)
  – Unpermitted Facilities - Auto Body Shop Case Study (Issue #4 SB)
Rendering Facility Odors

• Strategies
  – SCAQMD staff working on Proposed Rule 415 to address odors from rendering facilities
  – Working with stakeholders – Fall 2016

• Applicable Study Issues
  – Rendering Odors (Issue #5 BH)
  – Rendering Odors (Issue #8 SB)
Auto Body and Repair Shops

• Strategies
  – Developed compliance video for autobody shop
  – Hosted Auto Expo at L.A. Trade Tech and Norton Regional Event Center in Aug 2013
    • Training on high-efficiency spray painting
    • Education on lower-polluting VOC products
    • Demonstration of alternative-fueled vehicles
  – Provided local auto body and repair shops with lasers for spray guns and aqueous brake cleaners
    • 65 lasers for spray guns (funded through Air Shed Grant)
    • 59 aqueous brake cleaners (funded through Air Shed Grant)
  – Staff developing model for air quality auto body shops

• Applicable Study Issues
  – Air Quality Assistance (Issue #1 BH)
  – Model Air Quality Facilities Template (Issue #5 BH)
  – Auto Body Shop Case Study (Issue #5 SB)
Omnitrans (Issue #6 SB)

- Omnitrans – services and fuels natural gas buses
  - gas buses in San Bernardino
    - Surrounding land uses: Ruben Campos Community Center, Alessandro Elementary School playground, and homes
- Community has expressed safety concerns regarding two-30,000 gallon natural gas storage tanks
- Over the years, CARB conducted monitoring and SCAQMD staff met with Omnitrans
- July 2015 - Omnitrans agreed to remove storage tanks and transition to pipeline natural gas
- Community (CCAEJ) was instrumental
US EPA Targeted Air Shed Grant

- On March 4, 2011 Governing Board recognized $2.9 million from U.S. EPA’s Targeted Air Shed Grant Program (Grant)
- Includes multiple incentive programs
- Incentive programs implemented in pilot study areas of San Bernardino and Boyle Heights as part of 2010 Clean Communities Plan
- ~$2.3 million has be spent in Boyle Heights and San Bernardino
- Remaining funds will be used for electric vehicle charging equipment, commercial cordless electric handheld landscape equipment and CNG school buses
Targeted Air Shed Grant Expenditures

- Aqueuous Brake Cleaners, $60,000
- Boiler Efficiency, $100,000
- Auto Body Laser Paint Spray, $5,970
- School Air Filtration, $528,798
- Weatherization, $279,772
- Commercial Electric Lawn Mowers, $565,838
- Wood Stove/Fireplace Gas Log Buy Down, $26,255
- Architectural Coating, $9,369
- Yard Equipment, $777,146

Total: $2.36 Million
Challenges Implementing US EPA Targeted Air Shed Grant

- Challenges
  - Reluctance to interact with regulatory agency
  - Language
  - Typical outreach efforts not successful
  - Greater incentives needed
- Modified outreach strategy
  - Door to door canvassing
  - Auto Expo
- Modified Grant Programs
  - Greater incentives
  - Added additional incentive programs
Rule 1420.1 – Large Lead-Acid Battery Recyclers

- Adopted November 2010 to address lead emissions from large lead-acid battery recyclers
- Amended Rule 1420.1 – 2014 and 2015
  - Established emission limits for lead, arsenic and toxics organics
  - Requirements to fund a continuous multi-metals monitoring demonstration program
  - Curtailment provisions
  - Lowered ambient lead concentration limit
- April 2015, Exide announced closure
  - Working closely with DTSC during facility closing activities
  - Added provisions in R1420.1 for monitoring during closure
Legacy LA – Ramona Gardens 2020

- SCAQMD first met with Legacy LA in 2013
- Non-profit - focused on youth development
- Youth representatives presented proposals and solutions to Environmental Justice in their neighborhood
  - Air filtration for Murchison Elementary and Santa Teresita Parochial Schools
  - Weatherization for homes near freeways
- Air filtration has been installed at both schools (Air Shed Grant and MELA)
- Completed weatherization
Next Steps

• Continue implementing Air Shed Grant
• Summarize Pilot Study after completion of Air Shed Grant
• Meet with Working Group