

# CERP & CAMP IMPLEMENTATION

UPDATE – 3<sup>RD</sup> QUARTER 2020

East Los Angeles, Boyle Heights, West Commerce  
August 19, 2020

NISH KRISHNAMURTHY, PH.D.  
AIR QUALITY SPECIALIST

ASSEMBLY BILL (AB) 617  
COMMUNITY AIR INITIATIVES

## COMMUNITY EMISSIONS REDUCTION PLAN

EAST LOS ANGELES,  
BOYLE HEIGHTS,  
WEST COMMERCE

September 2019  
Final

SOUTH COAST  
AIR QUALITY MANAGEMENT DISTRICT



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## CERP AND CAMP IMPLEMENTATION



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# AGENDA

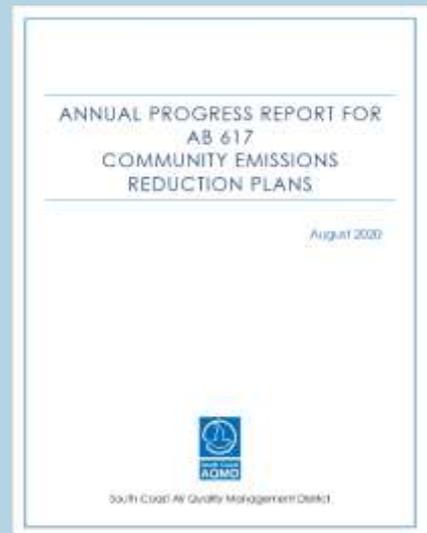
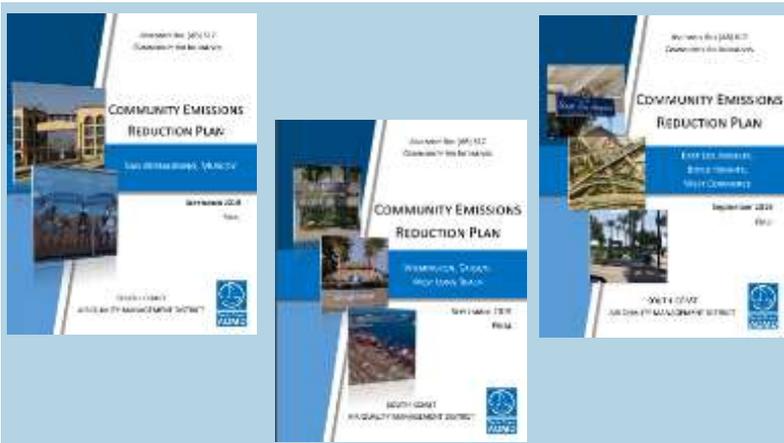


- CERP Annual Progress Report
- CERP Updates
  - Railyard & Warehouse Indirect Source Rules (ISRs)
  - Monitoring Update
  - CARB Rail Enforcement
  - Automated License Plate Reader
  - General Updates
- Los Angeles County Green Zones Ordinance



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# ANNUAL PROGRESS REPORT



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# ANNUAL PROGRESS REPORT

Available online:  
<http://www.aqmd.gov/docs/default-source/ab-617-ab-134/2019-20-draft-cerp-progress-report.pdf>



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

\*Health and Safety Code §44391.2(c)(7)

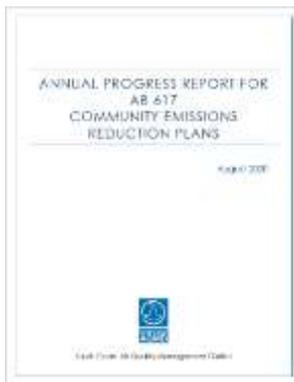


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## OVERVIEW OF ANNUAL PROGRESS REPORT

### 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

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## IMPLEMENTATION HIGHLIGHTS

- \$2 million requested from CARB for school air filtration systems
- \$1 million requested for emission control and conversion projects at chrome-plating facilities
- \$20.7 million allocated for cleaner technologies including Tier 4 locomotives, charging stations, and low-NOx trucks
- Established air monitoring station at Resurrection Church



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## ELABHWC CERP Actions

Air Quality Priority	Examples of Actions, Goals, and Strategies Required (September – June 2020)	Status of CERP
 <b>Neighborhood Freeway and Truck Traffic</b>	<ul style="list-style-type: none"> <li>• Conduct truck idling sweeps</li> <li>• Continue Warehouse ISR development</li> </ul>	<ul style="list-style-type: none"> <li>• 4 enforcement sweeps, 114 trucks inspected, 1 NOV</li> <li>• Proposed Rule 2305 (warehouse ISR) preliminary draft rule language released Nov 2019, public hearing expected first quarter 2021</li> </ul>
 <b>Railyards</b>	<ul style="list-style-type: none"> <li>• Conduct air monitoring</li> <li>• Develop CARB regulations and Indirect Source Rules (ISR)</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring conducted around all railyards fall/winter 2019, discussed with CSC</li> <li>• ISR community workshops conducted, initial concepts released, public hearing expected second quarter 2021</li> </ul>
 <b>Metal Processing Facilities</b>	<ul style="list-style-type: none"> <li>• Begin mobile air measurements near metal processing facilities</li> <li>• Reduce emissions through air monitoring, enforcement, incentives, outreach, and best management practices</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary and mobile monitoring conducted between November 2019 and March 2020</li> <li>• CAPP incentive funds requested in April 2020 for control or conversion projects</li> </ul>
 <b>Rendering Facilities</b>	<ul style="list-style-type: none"> <li>• Begin outreach to provide information on Rule 415 requirements</li> <li>• Begin mobile air measurements for VOCs near rendering facilities</li> </ul>	<ul style="list-style-type: none"> <li>• Provided Rule 415 information to CSC in January 2020, outreach impacted by COVID-19</li> <li>• Mobile monitoring for VOCs near all rendering plants beginning June 2019 and periodically occurring</li> </ul>
 <b>Auto Body Shops</b>	<ul style="list-style-type: none"> <li>• Begin air monitoring near auto body</li> <li>• Conduct targeted enforcement activities, as needed</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring initiated in Summer/Fall 2019, investigations ongoing</li> <li>• Enforcement efforts driven by monitoring findings initiated/ongoing</li> </ul>
 <b>General Concerns about Industrial Facilities</b>	<ul style="list-style-type: none"> <li>• Address fugitive emissions, odors, and dust through improved public outreach and education on filing air quality complaints</li> <li>• Collaboration with land use agencies to cross-check facility permits</li> </ul>	<ul style="list-style-type: none"> <li>• Provided air quality compliant process information to CSC, outreach impacted by COVID-19</li> <li>• Participated in LA County Green Zone ordinance development</li> </ul>
 <b>Schools and Community Areas</b>	<ul style="list-style-type: none"> <li>• Implement Clean Air Ranger Education (CARE) and Why Healthy Air Matters (WHAM) programs at schools</li> <li>• Install air filtration systems at schools</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted 11 WHAM outreach events within the community</li> <li>• CAPP incentive fund requested in April 2020 for school air filtration</li> </ul>

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# ELABHWC EMISSION INVENTORY

## Baseline Mobile Source DPM Emissions



- Chapter 5a, Table 5a-I 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



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# ELABHWC CERP EMISSION REDUCTION TARGETS

Emissions	NOx	DPM
2017 Emissions (tpy)	2,710	34.8
Projected 2024 Emissions Baseline (tpy)	1,841	13.2
Emission Reductions, 2024 (tpy)	143	1.2
Percent Reduction, 2024 (%)	8	9
Projected 2029 Emissions Baseline (tpy)	1,851	11.2
Emission Reductions, 2029 (tpy)	377	1.4
Percent Reduction, 2029 (%)	20	13

- Per CARB guidance, emissions baseline was estimated for 2017 and milestone years 2024 and 2029.
- Emission reductions in 2024 and 2029 are due to CERP actions



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# EMISSION REDUCTION TARGETS



- Emission reduction targets established in each CERP (e.g., NO<sub>x</sub>, 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



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# TOTAL INVESTMENT IN INCENTIVES

- Future incentive based emission reductions dependent on program funding

Approximate Emission Reductions to date based on Pollutant and Total Investment\*



\*Dollar figure reflects contracts awarded between 2017 and June 30, 2020

\*Emission reductions expected beginning in 2020



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## ANNUAL PROGRESS REPORT TIMELINE



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## DISCUSSION

*Questions, Comments, Concerns?*



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# CAMP IMPLEMENTATION & MONITORING PROGRESS REPORTS



UPDATE – 3<sup>RD</sup> QUARTER 2020  
PAYAM PAKBIN, PhD  
PROGRAM SUPERVISOR

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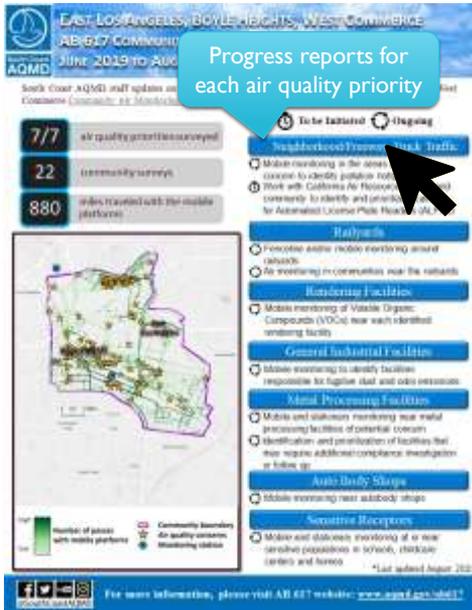
## AIR MONITORING PROGRESS REPORTS

-  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



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Progress reports for each air quality priority

# AIR MONITORING PROGRESS REPORTS

Air monitoring updates for the period of June 2019 to August 2020 is now available online:

<http://www.aqmd.gov/ab-617/CAMP/infographics/ELABHWC>

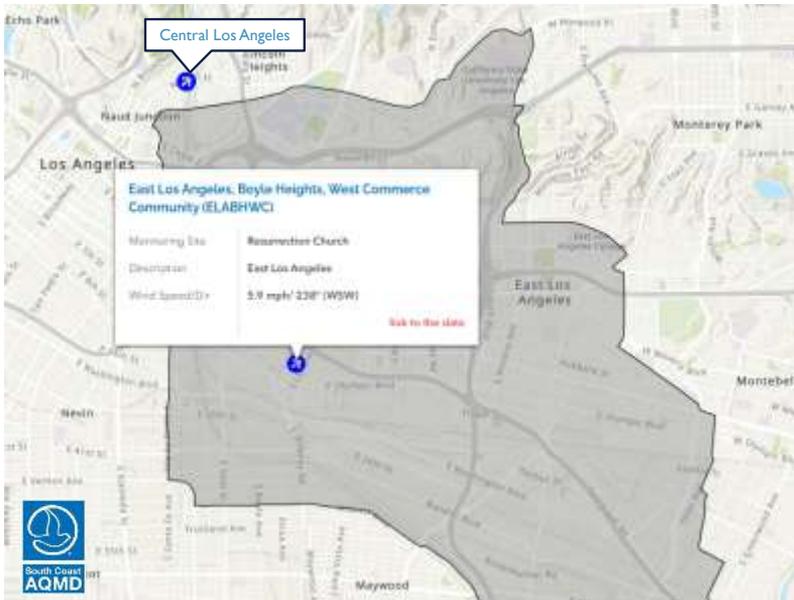


# PROGRESS REPORTS FOR EACH AIR QUALITY PRIORITY

## 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





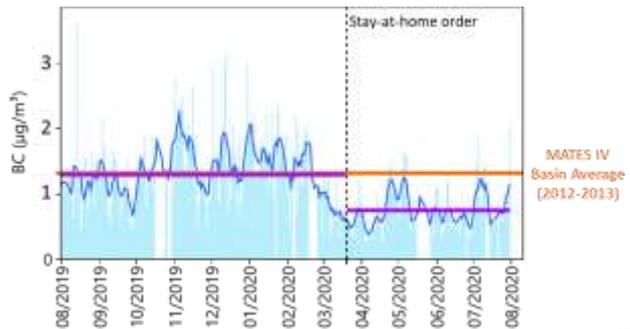
# BASELINE MEASUREMENTS AT RESURRECTION CHURCH SITE



## UPDATE ON BASELINE MEASUREMENTS

Resurrection Church Monitoring Station

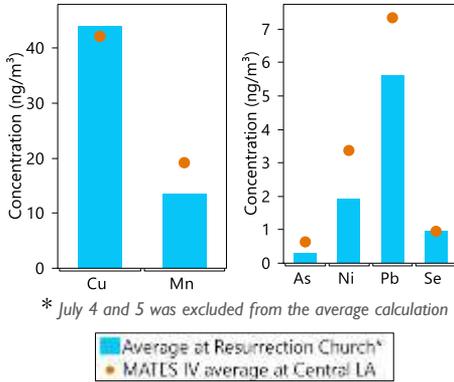
■ Daily average  
— 7-day moving average  
— pre-lockdown and post-lockdown average



# UPDATE ON BASELINE MEASUREMENTS



Resurrection Church Monitoring Station  
 Continuous near real-time metals measurements  
 Began in February 2020



Substantial increase in concentrations of several metals was observed during the July, 2020 fireworks

For more information please visit our interactive report:  
<http://www.aqmd.gov/home/air-quality/air-quality-studies/special-monitoring/independence-day-fireworks>



# SEEKING CSC INPUT

- Comments, Questions, Concerns?

Please contact:  
 Payam Pakbin  
[ppakbin@aqmd.gov](mailto:ppakbin@aqmd.gov)  
 909-396-2122





## RAILYARD & WAREHOUSE INDIRECT SOURCES RULES (ISR)



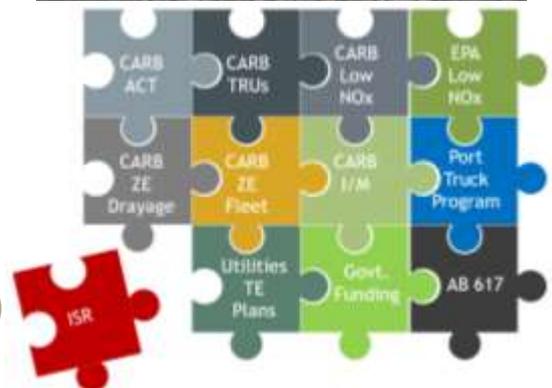
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## BACKGROUND INDIRECT SOURCE RULES

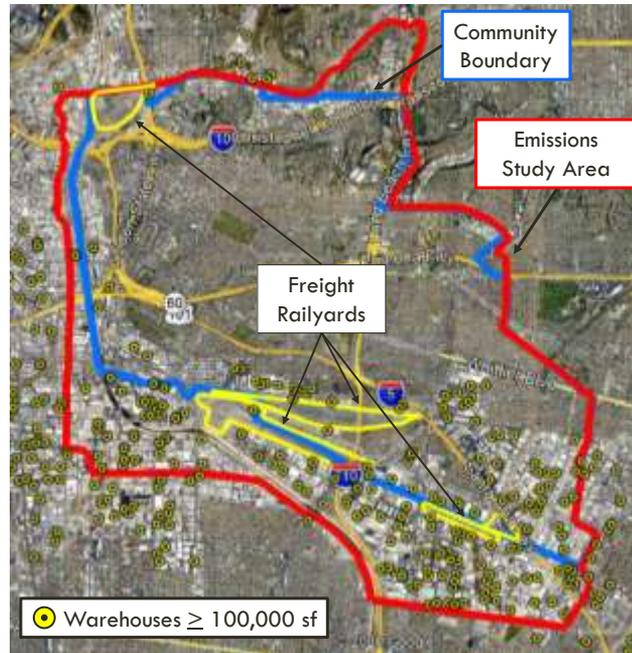
- South Coast AQMD staff developing ISRs for Warehouses and Railyards
- South Coast AQMD authority over mobile sources is limited
- Many other policies & regulations in development will affect mobile sources

*Development of ISR requires coordinated effort*



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# WAREHOUSES AND RAILYARDS IN ELABHWC COMMUNITY



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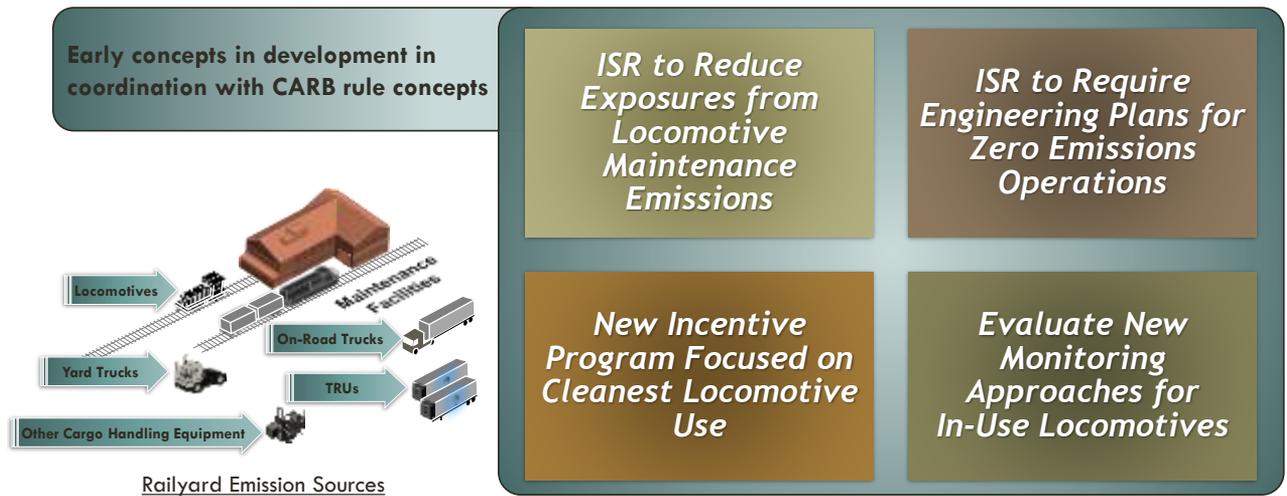
## WAREHOUSE ISR — WAREHOUSE ACTIONS AND INVESTMENTS TO REDUCE EMISSIONS (WAIRE) PROGRAM

- Rule concept: Menu-based point system (similar to LEED)
  - Requires warehouse operators to annually earn WAIRE Points
- Draft WAIRE Menu options include acquisition or use of:
  - ZE/NZE trucks and ZE yard trucks
  - Fueling/charging infrastructure for ZE vehicles
  - Onsite energy systems (e.g., solar, batteries)
  - Installing offsite air filtration for sensitive land uses
  - Option to pay mitigation fee in lieu of earning points from WAIRE Menu
    - Funds from mitigation fee used for truck incentives in community near warehouse
- Reporting requirements for warehouse owners and operators
- Draft proposed rule still in development and feedback on options is welcome



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## RAILYARD ISR CONCEPTS



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## NEXT STEPS & CONTACTS

- Warehouse ISR brought to Board for consideration Q1 2021
  - Railyard ISR Q2 2021
- Public process includes opportunities for comment/feedback
  - CEQA, draft rule materials, working groups, etc.
- More information available at: [www.aqmd.gov/fbmsm](http://www.aqmd.gov/fbmsm)
  - Sign up for email updates here: [www.aqmd.gov/sign-up](http://www.aqmd.gov/sign-up)
- Contacts:
  - Victor Juan, Program Supervisor ([vjuan@aqmd.gov](mailto:vjuan@aqmd.gov))
  - Ian MacMillan, Manager ([imacmillan@aqmd.gov](mailto:imacmillan@aqmd.gov))

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# AIR MONITORING OVERVIEW FOR DIESEL EXHAUST EMISSIONS



UPDATE – 3<sup>RD</sup> QUARTER 2020

Dr. PAYAM PAKBIN  
PROGRAM SUPERVISOR

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## CERP COMMITMENTS – TRUCK TRAFFIC

- Chapter 5b, Action 1

Conduct air measurements near warehouse clusters and adjacent residential areas to identify potential hotspots resulting from heavy-duty truck activities (e.g., idling)



- Chapter 5b, Action 3

Use initial air measurements from mobile platforms to assess air pollution in the areas of traffic concern, and evaluate potential correlations with traffic information



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# CERP COMMITMENTS - RAILYARDS

■ Chapter 5c, Action I

In the second half of 2019, South Coast AQMD to conduct air measurements at railyards and nearby communities	
Air measurements will extend into the community to assess how railyard related emissions may contribute to the overall air pollution burden in this community	
Use emissions inventory and air monitoring information to identify opportunities for emission reductions	



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# ONGOING AIR MONITORING

**Mobile monitoring** can help identify pollution hotspots and support CERP actions



A total of six days of mobile monitoring was conducted in the ELABHWC community for measurements of diesel exhaust tracers

The fixed air monitoring stations are located in close proximity to the railyards and major roadways

-  Community boundary
-  Monitoring station
-  Railyards
-  Railroads
-  Major roads
-  Warehouses

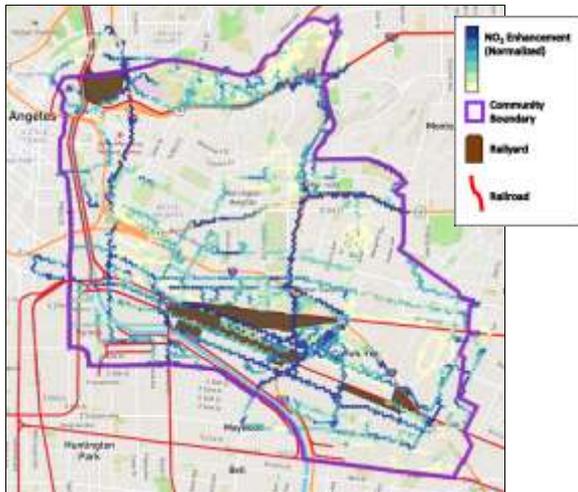


**Fixed air monitoring** stations can provide baseline air quality information and help track the progress of emission reduction strategies



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## MOBILE MONITORING OVERVIEW



- Most elevated NO<sub>2</sub> concentrations on freeways, freeway off-ramps, and major roadways
- Elevated concentrations of NO<sub>2</sub> near and downwind of the railyards
- Levels were relatively lower in the residential areas
- Similar observations were made for black carbon and ultrafine particles
- More details in the air monitoring progress reports



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## DISCUSSION

- Comments, Questions, Concerns?

Please contact:  
 Payam Pakbin  
[ppakbin@aqmd.gov](mailto:ppakbin@aqmd.gov)  
 909-396-2122



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## CARB Railyard Enforcement

August 19, 2020  
 East Los Angeles, Boyle Heights, West Commerce  
 AB 617 Community Steering Committee Meeting  
 Mae Colcord

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## Railyard Enforcement

- Cargo Handling Equipment (CHE)
  - 100% in-use compliance at intermodal railyards statewide
  - Prioritizing AB 617 Communities for enforcement activities
- Transportation Refrigeration Units (TRUs)
  - 100% compliance of TRU gen sets and refrigerated railcars at intermodal railyards statewide
- Drayage Trucks
  - Case settlement with UP and BNSF



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# Locomotive Enforcement



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# Reporting Complaints



CalEPA Environmental Complaint System

<https://calepa.ca.gov/enforcement/complaints/>

1-800-END-SMOG



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## Locomotive Complaint Response

Public

- Request additional information from complainant
- Location, time, ID#, smoke, other nuisance

Railroad

- Discuss reasons for idling – sometimes necessary
- Discuss ways to reduce idling/nuisance

Gov't  
Agency

- CARB and/or Air District investigation
- U.S. EPA – can enforce own idling regulation



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## Locomotive Emission Reduction Concepts

- Adopt U.S. EPA 30 Minute Idling Limit
  - Incorporates Federal requirements in CA SIP
  - Makes the rule CARB enforceable
  - Enforcement by Air Districts possible through enforcement MOU
  - <https://ww2.arb.ca.gov/our-work/programs/reducing-rail-emissions-california>



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## AUTOMATED LICENSE PLATE READER (ALPR) STATUS UPDATE



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## AUTOMATED LICENSE PLATE READER (ALPR)



- CERP Chapter 5b, Action 3 includes the use of ALPR systems to help reduce emissions from trucks with incentives
- ALPR can be used to:
  - Provide emissions information
  - Identify truck routes
  - Notify truck operators of incentives
- ALPR in combination with Portable Emissions Acquisition System (PEAQS) may provide emissions information about trucks in the community



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## CURRENT ALPR EFFORTS



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

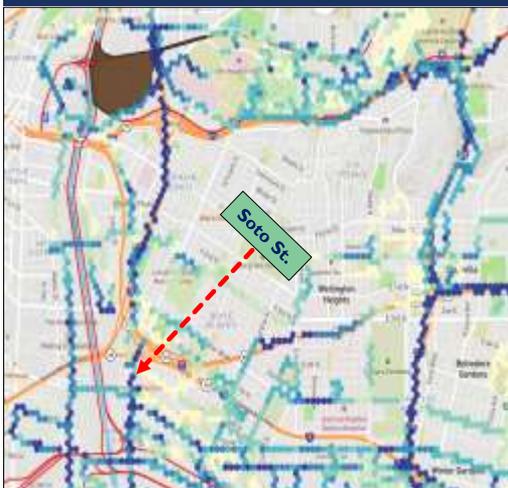
- ALPR location worksheet provided this meeting for CSC input



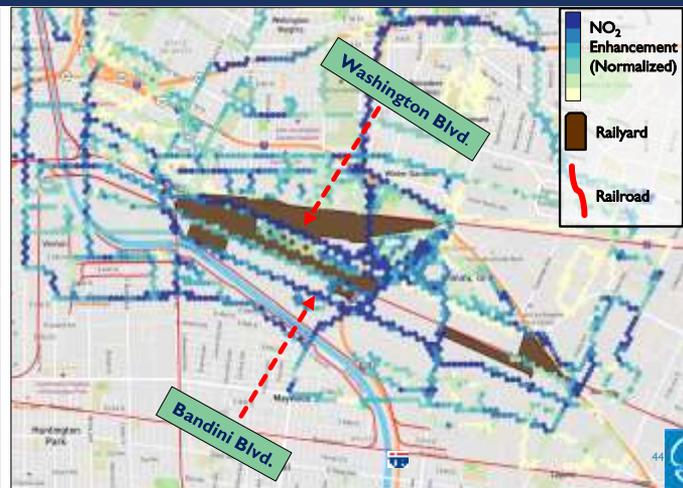
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## CORRIDORS WITH ELEVATED POLLUTION LEVELS



Boyle Heights

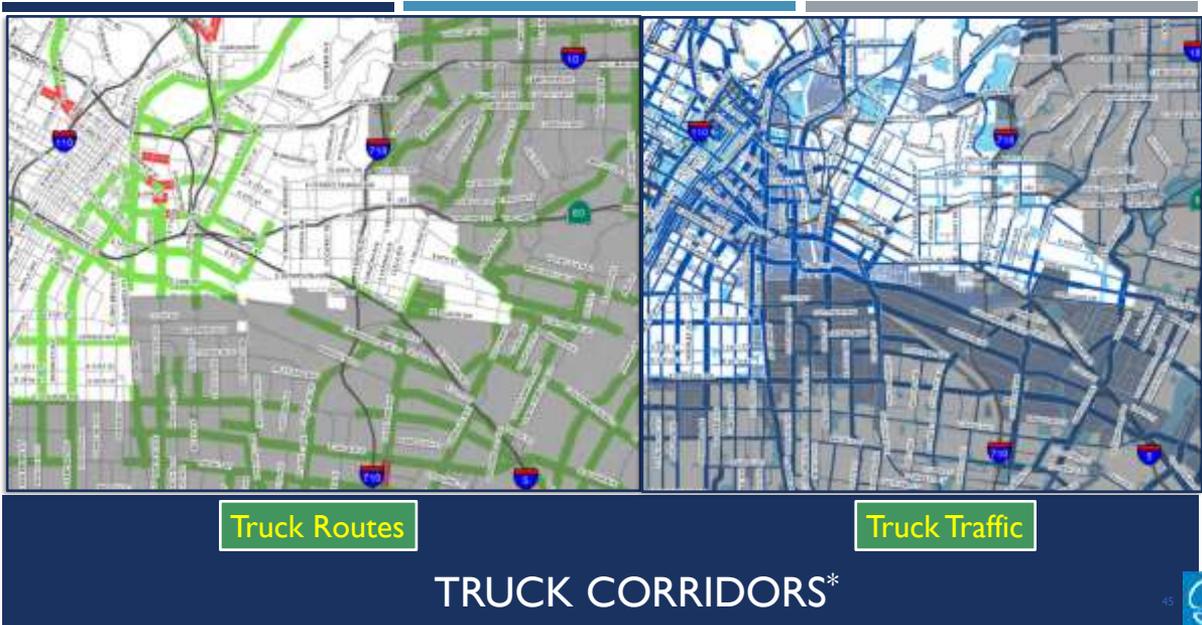


Commerce



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\*More information available at: [https://www.metro.net/projects/call\\_projects/cstan/](https://www.metro.net/projects/call_projects/cstan/)

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## ALPR DEPLOYMENT LOCATION WORKSHEET

### Purpose:

CSC to identify potential ALPR system locations in the ELABHWC community\*

### How will this information be used:

Input collected will help prioritize where the ALPR systems will be deployed

### Example:

Location (intersection, city block, address, etc.)	Comments
<i>Washington Blvd. along railyard in Commerce</i>	<i>Truck route with heavy truck traffic due to UP Commerce Railyard</i>
<i>I-710 offramp onto Bandini Blvd. in Vernon</i>	<i>Heavy truck traffic</i>
<i>Soto St. between East LA Interchange and the 10 Freeway</i>	<i>Many trucks coming off the freeways</i>

\*There may be restrictions where such systems can be placed

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## GENERAL UPDATES



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## EXIDE CLEAN-UP EFFORTS

- Exide Technologies was a battery recycling facility in Vernon which caused lead soil contamination in ELABHWC community
- Closure operations began in Nov 2017 and overseen by DTSC
- In the Spring of 2020, contractors conducting residential clean-up operations were issued Notices of Violation (NOVs) by South Coast AQMD due to trackout and fugitive dust concerns
- In June 2020, Exide Technologies was issued a NOV by South Coast AQMD for not fulfilling Rule 1420.1 Compliance Plan requirements (facility is now in compliance)



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# DISCUSSION

*Questions, Comments, Concerns?*



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## Green Zones Program



### LA County Department of Regional Planning

## Green Zones Program Presentation to East LA AB 617/ CSC

August 19, 2020

LA COUNTY DEPARTMENT OF REGIONAL PLANNING



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## Green Zones Program Background & Goal

County Board motion in 2015

- Develop land-use strategies to improve the public health and quality of life of residents in EJ communities.
- Address incompatible land uses in proximity to sensitive uses by changing regulatory requirements.
- Revise/add General Plan policies to support these goals.

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## Green Zones Program Components / Overview



Environmental Justice  
Screening Method



Zoning Requirements



Stakeholder  
Engagement



Business Incentive Research



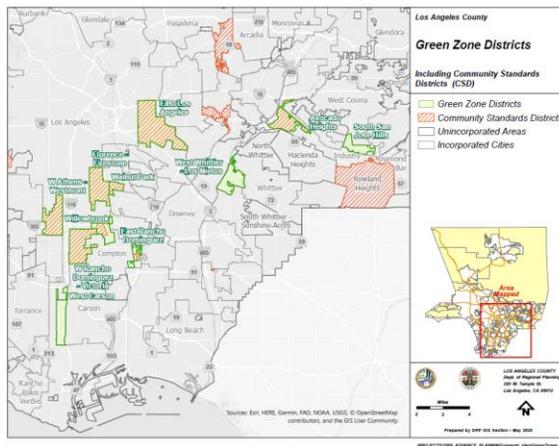
Agency Coordination



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## Identification of Green Zone Districts

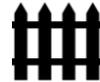
- Avocado Heights
- East Los Angeles
- East Rancho Dominguez
- Florence-Firestone
- South San Jose Hills
- Walnut Park
- West Athens-Westmont
- West Carson
- West Rancho Dominguez-Victoria
- West Whittier-Los Nietos
- Willowbrook



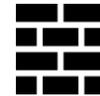
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## Green Zone District Standards

- New development standards for specific industrial, recycling, or vehicle-related uses within 500 feet of existing sensitive uses on other properties
- New development standards would require a Conditional Use Permit for specific uses
- Nonconforming uses must comply within 3, 5 or 10 years of ordinance adoption.
  - Applications and steps to comply within 1-5 years of ordinance adoption.
  - Proactive outreach and monitoring and inter-agency coordination will be part of this program.



Fencing



Solid Wall Screen



Landscape Buffer

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## Defining Sensitive Uses

- Create a Countywide definition of sensitive uses.
- Helps apply new Green Zone standards to industrial, recycling, and vehicle-related uses in specific communities.
- Also establishes standards for new sensitive uses when they locate adjacent to or adjoining legally, existing industrial, recycling and solid waste, or vehicle-related.
  - Designed to address new multifamily development in commercial and mixed-use zones.
  - Discourage further development of incompatible uses in industrial areas



Solid Wall Screen



Landscape Buffer

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## Recycling and Waste Management Revisions

- New permitting requirements for recycling and waste management, including automobile dismantling yards, pallet yards, organic/solid waste facilities, and supermarket accessory recycling collection centers.
- Current regulations lump uses into one category: junk & salvage, which makes it difficult to regulate with appropriate permitting conditions.
- More stringent entitlement process and standards for new development subject to a CUP for future facilities. Will include minimum distance to sensitive uses.
- Identifies new organic waste and recycling uses to be in line with new state laws for waste diversion and provide an avenue for permitting with conditions.



Recycling

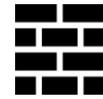


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## Storage Enclosures for Recycling and Solid Waste

- Add additional requirements to current development requirements for solid waste and recycling storage enclosures
- Applies to new commercial and industrial development or multifamily residential development of four or more units, and to expansion of existing development by 50% or more of the existing floor area. The revisions would not apply to residential development less than 4 units.



Solid Wall  
Screen



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## General Plan Amendment Revisions

- County General Plan Amendment to ensure consistency with proposed with Title 22 changes and promote environmental justice policies.
- Propose zone change to 28 parcels in Florence-Firestone, West Rancho Dominguez, West Carson, and Wilmington and proposed land-use designation change for 15 of those parcels for consistency.

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## CEQA, EIR & Health Impact Assessment

### EIR

- Inform government decision makers and the public about potential significant environmental impacts of proposed projects.
- Identify ways that environmental impact(s) can be avoided or significantly reduced
- Enhance public participation in the environmental review process through scoping meetings, public notice, public review, hearings, and the judicial process.

### HIA

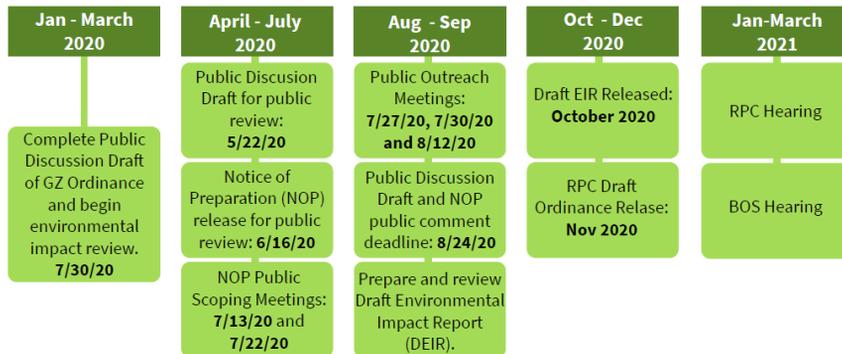
- Evaluate potential impacts of the program with relation to:
  - Exposure to air pollutants and toxins
  - The use of green space to buffer incompatible uses
  - Impacts on accessibility and mobility
  - economic vibrancy of the community

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## Project Schedule



### Opportunities to Participate

- A. **Public Review Draft and Initial Study for Draft EIR – Comments Due August 24, 2020**
- B. Revised Public Hearing Draft Ordinance (Fall 2020)
- C. Public Review of Draft PEIR (Fall 2020, 45 days Public Review)
- D. Regional Planning Commission (RPC) Hearing (Early 2021)
- E. Los Angeles County Board of Supervisors Hearing & Final EIR (Early 2021)

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## Document Location and Contact Information

The Draft Ordinance & Initial Study are available online at:

<http://planning.lacounty.gov/greenzones/documents>

Written comments are due by **5:00 p.m. August 24, 2020**

- Responses may be emailed to [GreenZones@planning.lacounty.gov](mailto:GreenZones@planning.lacounty.gov) or mailed to:

Tahirah Farris  
 Regional Planner  
 Department of Regional Planning  
 320 West Temple Street, 13<sup>th</sup> Floor  
 Los Angeles, CA 90012



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