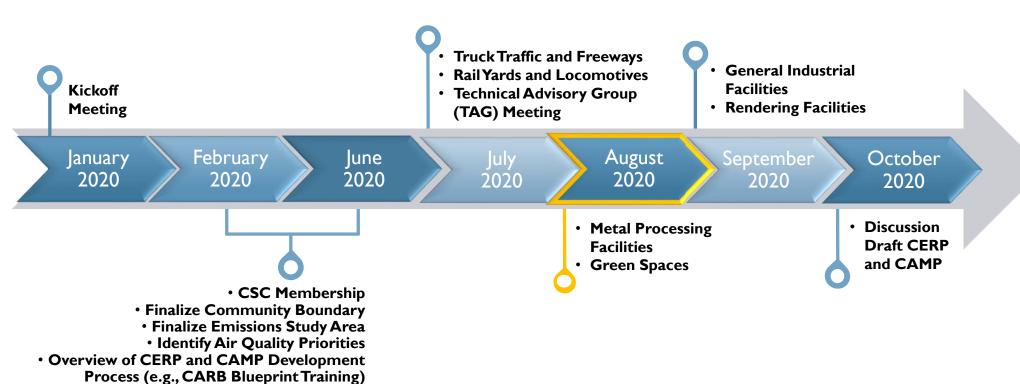
METAL PROCESSING FACILITIES GREEN SPACES

SOUTHEAST LOS ANGELES CSC MEETING AND WORKSHOP #5 AUGUST 27, 2020



CERP AND CAMP TIMELINE





AIR QUALITY PRIORITY – METAL PROCESSING FACILITIES



AIR QUALITY PRIORITY OVERVIEW



- CSC members identified metal processing facilities as a top air quality priority
- Community members expressed general concerns about toxic air contaminants, odors and particulate matter emissions from metal processing facilities

EXAMPLES OF TYPES OF FACILITIES IN SELA



- Approximately 76 metal processing facilities in the SELA emissions study area
- Examples of metal processing facilities include in SELA:
 - Metal Forging
 - Metal plating (e.g., chromium electroplating)
 - Metal Recycling
 - Other









EXAMPLES OF METAL PROCESSING OPERATIONS





Metal forging:

- Forms and shapes metals through hammering, pressing, or rolling by heating raw stock (e.g., billets) to its plastic deformation temperature and shaping it to a desired shape and size
- Metal grinding is often an integral part to metal forging

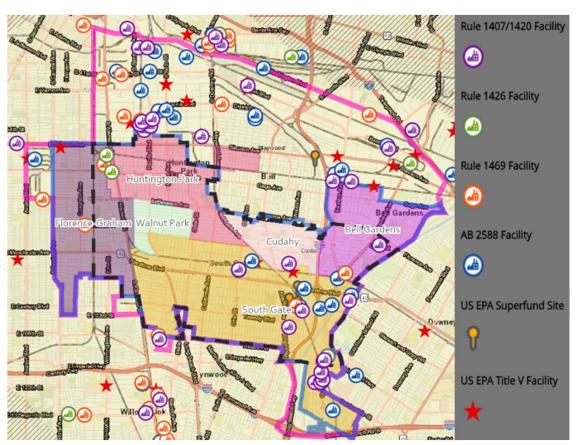


Metal plating:

- Process of in which a thin layer of metal coats a surface
- Often used to improve corrosion resistance, enhance hardness, and for decorative purpose

METAL PROCESSING FACILITIES— EMISSION SOURCES AND DATA





Metal Toxic	Pounds Per Year
Cadmium	1.57
Hexavalent Chromium	0.06
Nickel	7.98
Arsenic	4.04
Lead	58.85

Criteria Pollutant	Tons per Year
PM2.5	9.58
PMI0	10.99
VOCs	3.01

- $\bullet\,\,$ Data from 2018 base year for SELA community boundary and emission study area
- Story map available at: https://scaqmd-online.maps.arcgis.com/apps/MapJournal/index.html?appid=9f5791575fdf4d859a6d800
 laa9f8980



EXAMPLES OF SOUTH COAST AQMD RULES FOR METAL PROCESSING FACILITIES



I 100 Series (Criteria Air Pollutants)

- 1107 Metal Coating
- 1124 Aerospace Assembly and Manufacturing Operations
- 1125 Metal Container, Closure, and Coil Coating
- 1144 Metalworking Fluids and Lubricants
- 1171 Solvent Cleaning Operations

1400 Series (Toxics)

- 1407 Arsenic, Cadmium, and Nickle emissions from metal melting
- 1420/1420.2 Lead emissions from metal melting
- 1426 Emissions from Metal Finishing (e.g., plating/anodizing)
- 1430 Emissions of Metal Grinding at Forging Facilities
- 1469– Chromium (+6) emissions from Plating/Anodizing
- 1469.1 Chromium (+6) emissions from Coating Operations
- 1480 Ambient Monitoring and Sampling of Metal Toxic Air Contaminants

Rule 402 – Public Nuisance

EXAMPLES OF EMISSIONS CONTROLS REQUIRED BY SOUTH COAST AQMD RULES





Point Source Controls

Air pollution controls that require facilities to meet a certain emissions limits



Housekeeping Measures

Cleaning requirements to reduce fugitive metal particulate



Building Enclosures

Close openings to further contain fugitive metal particulate



Other

For example, additional requirements (e.g., negative air for total enclosures) for facilities located near schools centers



DISCUSSION



COMMENTS AND QUESTIONS?



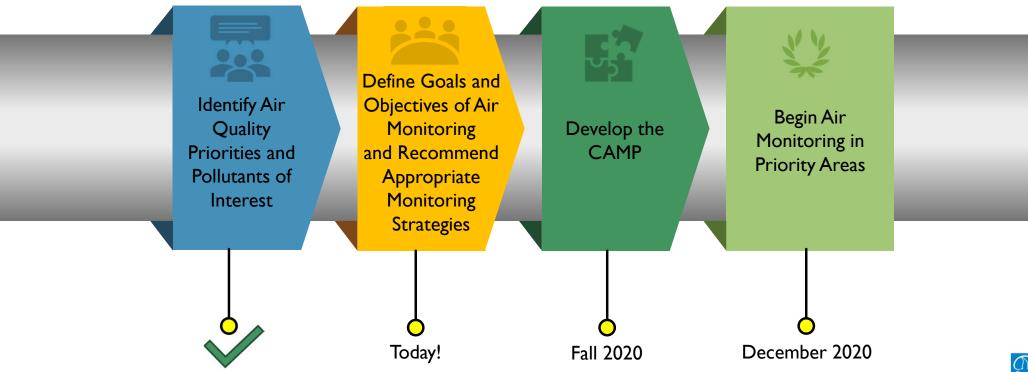


AIR QUALITY PRIORITY: METAL PROCESSING FACILITIES

PAYAM PAKBIN, PH.D. - PROGRAM SUPERVISOR



WORKING WITH THE CSC TOWARDS DEVELOPING THE COMMUNITY AIR MONITORING PLAN (CAMP)



AIR MONITORING GOALS AND OBJECTIVES

Identify sources of high toxic metal emissions

If elevated levels of toxic metals persist, perform follow up actions

Determine if enforcement actions are needed

AIR MONITORING AND ENFORCEMENT STRATEGY

If potential source of emissions are identified

- Mobile monitoring near metal processing facilities
- Identification of air pollution hotspots

Area Surveys

Source Identification

 Support efforts to identify potential sources of emissions

- Investigative monitoring
- Facility inspections
- Enforcement actions, if needed

Enforcement & other activities

AQ Priority: Metal Processing Facilities

If pollution hotspots are detected



ONGOING AIR TOXIC METALS INVESTIGATION

Baseline Monitoring

Mobile Measurements

Investigative Monitoring



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



Multiple Air Toxic
Exposure Study
measurements were
conducted in Huntington
Park in 2018-2019.
MATESV report and
data anticipated to be
finalized in early 2021

ONGOING AIR TOXIC METALS INVESTIGATION

Baseline Monitoring Mobile Measurements Investigative Monitoring





Development of Multi-Metals Mobile Platform

First of its kind! ongoing

ONGOING AIR TOXIC METALS INVESTIGATION

Baseline Monitoring Mobile Measurements

Investigative Monitoring



Facility Monitoring

Time-integrated monitoring near target facility



Facility Inspections and Enforcement Actions



DISCUSSION

Comments, Questions, Concerns?

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OFFICE OF COMPLIANCE & ENFORCEMENT



METAL PROCESSING FACILITIES

JACK CHENG

Senior Enforcement Manager,

Toxics and Waste Management

COMPLIANCE ACTIVITIES



Facility Inspections – approx. 27,000 facilities & over 67,000 permits

Responding to Notifications –

equipment breakdowns, deviations from permit conditions, or other notifications

Complaint Response – approx. 10,000 complaints annually

Enforcement Actions –

NC, NOV, and Heading Board

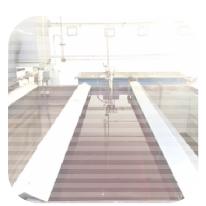
METAL PROCESSING FACILITY TYPES



What is considered metal processing?



Coating/Treating



Plating/Anodizing



Melting/Forging

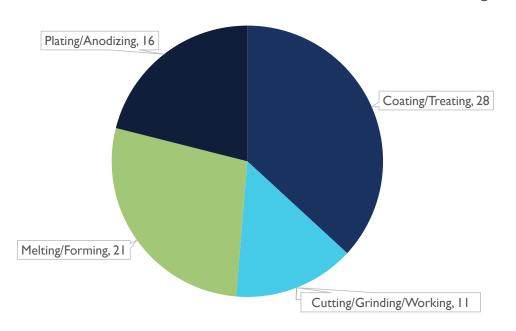


Cutting/Grinding/Working

IN YOUR COMMUNITY



SELA Emissions Study Area Metal Processing Facilities



- Coating/Treating
- Cutting/Grinding/Working
- Melting/Forming
- Plating/Anodizing

METAL FACILITY INSPECTIONS



- Process walkthrough
- Permitted/unpermitted equipment (permit conditions, relevant rules, etc.)
- Production review (throughput, production, usage, waste, invoices, etc.)
- Document review (source tests, equipment calibrations, Safety Data Sheets, etc.)
- Sampling (content identification, compliance verification, etc.)
- General observations (housekeeping, equipment condition, maintenance, etc.)

PUBLIC COMPLAINTS



- I-800-CUT-SMOG (I-800-288-7664) or online <u>www.aqmd.gov</u>
- Live attendant during business hours (Monday-Friday) or to our standby system off-hours
- Common complaints for metals facilities: dust and/or odors
- Complainant information = confidential
- Complaints can be made anonymously
- INSPECTORS RESPOND TO ALL COMPLAINTS!



ENFORCEMENT ACTIONS



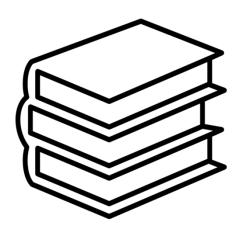
- Notice to Comply (NC) minor violations found during an inspection or request for additional information; "fix-it ticket"
- Notice of Violation (NOV) noncompliance with rules, permit conditions, or administrative requirements; a fine or penalty may be imposed
- Hearing Board to address ongoing noncompliance
 - Variance
 - Order for Abatement



REFERENCE SLIDE – EXISTING RULES



- I 100 Series (Criteria Air Pollutants)
 - 1107 Metal Coating
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 - 1125 Metal Container, Closure, and Coil Coating
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- 1400 Series (Toxics)
 - 1407 Arsenic, Cadmium, and Nickle Emissions from Metal Melting
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 - 1469.1 Chromium (+6) emissions from Coating Operations
- Rule 402 Public Nuisance



REFERENCE SLIDE - RULES IN THE PIPELINE.....



- Proposed Amended Rule 1107 Coating of Metal Parts and Products
- Proposed Amended Rule 1407 Control of Emissions of Arsenic, Cadmium, and Nickel from Non-Chromium Metal Melting Operations
- Proposed Rule 1407.1 Control of Toxic Air Contaminant Emissions from Chromium Alloy Melting Operations
- Proposed Amended Rule 1426 Emissions from Metal Finishing Operations
- Proposed Rule 1435 Control of Toxic Emissions from Metal Heat Treating Processes
- Proposed Amended Rule 1469.1 Spraying Operations Using Coatings Containing Chromium
- Proposed Rule 1480 Air Toxics Metals Monitoring

METAL PROCESSING FACILITIES— INCENTIVES



- April 2020, staff requested CARB allocate ~ \$360,000 in CAPP funds for metal processing facility control or conversion projects in SELA
- Project types include:
 - ☐ Emissions control device projects (e.g., installation of HEPA filters)
 - □ Conversion projects (i.e., switch from Cr6+ to Cr3+ processes at chrome plating facilities)
- Projects will reduce emissions beyond existing standards

METAL PROCESSING FACILITIES – POTENTIAL CERP POLICIES





- · Identify sources of elevated levels of toxic metal emissions
- If persistent or recurring elevated levels of toxic metal emissions are detected at locations through air monitoring activities, determine the source of emissions, collection additional measurements, inspect nearby facilities, and/or request records from the facilities



- Conduct outreach to metal processing facilities and provide information on the South Coast AQMD's Small Business
 Assistance Program, permitting process, and applicable rules and regulations
- Provide training to facility operators on best management practices and South Coast AQMD rules that address metal processing facilities



- Pursue incentive funds to reduce emissions from metal processing facilities
 - ✓ Transition hexavalent chromium electroplating operations to trivalent chromium
 - ✓ Installing air pollution controls to reduce emissions where emission reductions exceed rule requirements



 Continue rule development or rule amendment efforts to reduce emissions from metal processing facilities and operations



DISCUSSION



COMMENTS AND QUESTIONS?







AIR QUALITY PRIORITY – GREEN SPACES

GREEN SPACES— AIR QUALITY PRIORITY OVERVIEW



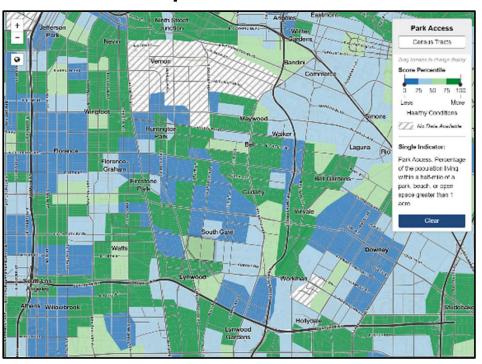
- CSC identified Green Spaces as a top air quality priority
- Community members would like to see increased green space in the SELA community through:
 - —Tree planting
 - —School gardens
 - —Tree buffers near freeways
 - —Greenways or tree canopy covers over bike trails



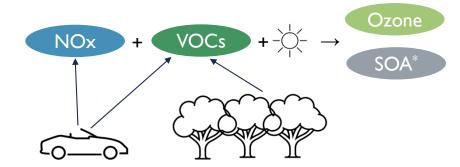
GREEN SPACES— EMISSIONS BENEFITS FROM GREEN SPACES



Park Access per Census Tract in SELA



- Map based on the 2010 census
- Map generated by the California Healthy Places Index: https://map.healthyplacesindex.org/



- Urban green spaces provide community benefits such as:
 - o Air filtration
 - Removing pollution
 - Cooling temperatures
 - Providing food
- Planting low VOC emitting trees does not contribute to air pollution

^{*} Secondary organic aerosols (SOA) are a suspension of fine solid or liquid particles in gas produced by oxidation of a parent molecule



GREEN SPACES— AGENCY OVERVIEW



Land Use Agencies L.A. County and Cities

 CA state law requires that each incorporated city and county adopt a long-term general plan, which includes land use policy, or how communities use land within their boundaries

L.A. County

 General Plan Land Use Element identifies goals and policies for the distribution, general location, and extent of uses of land (e.g., green space) in unincorporated L.A. County

Cities

 Each city adopts its own general plan including land use policies related to increasing green space

Air Districts South Coast AQMD

 Responsible for regional air quality planning, monitoring, and stationary source and facility permitting

Past Green Space Efforts

- Tree Partnership (2009)
 - Offered matching funding for qualifying tree planting projects initiated by cities and counties
 - Goal to increase the benefits trees provide in reducing criteria pollutants such as ozone, toxic air pollutants, and greenhouse gases



GREEN SPACES— POTENTIAL GREEN SPACE PROGRAMS IN SELA



- Coastal Conservancy LA Urban Greening Project (South Gate)
- California Natural Resources Agency Urban Greening Grant Program (Walnut Park)
- LA County Green Zone Ordinance
- Nonprofits Organizations
 - o From Lot to Spot
 - o Tree People
 - La Neighborhood Land Trust
 - o Farm LA



Program details available in Green Spaces Green Paper Draft

Green Zones Program



LA County Department of Regional Planning

Green Zones Program Presentation to SELA AB 617/ CSC

August 27, 2020



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.



Green Zones Program Components / Overview









Business Incentive Research

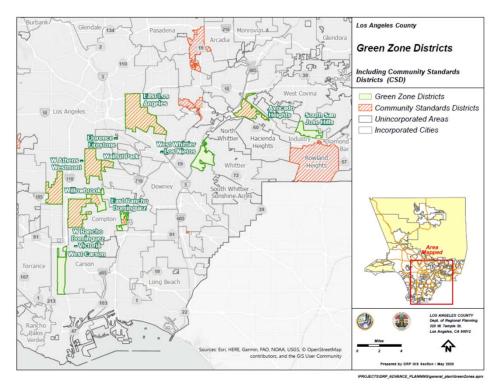


Stakeholder Engagement



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





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.





Development Standards

- Landscaping buffers
- Trees for every 100 sq. ft. of landscaping
- Required
 maintenance
 and watering
 system







Defining Sensitive Uses

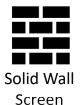
Create a Countywide definition of sensitive uses.



 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





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.

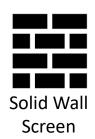


 Identifies new organic waste and recycling uses to be in line with new state laws for waste diversion and provide an avenue for permitting with conditions.



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% of more of the existing floor area. The revisions would not apply to residential development less than 4 units.







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.



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



Project Schedule

Jan - March **April - July** Oct - Dec Jan-March Aug - Sep 2020 2020 2021 2020 2020 **Public Discusion** Public Outreach Draft EIR Released: Draft for public Meetings: **RPC Hearing** October 2020 7/27/20, 7/30/20 review: Complete Public 5/22/20 and 8/12/20 **Discussion Draft Public Discussion** Notice of of GZ Ordinance **RPC Draft** Preparation (NOP) Draft and NOP and begin Ordinance Relase: **BOS Hearing** release for public public comment environmental Nov 2020 review: 6/16/20 deadline: 8/24/20 impact review. 7/30/20 **NOP Public** Prepare and review **Draft Environmental Scoping Meetings:** 7/13/20 and Impact Report 7/22/20 (DEIR).

Opportunities to Participate

- A. Revised Public Hearing Draft Ordinance (Fall 2020)
- B. Public Review of Draft PEIR (Fall 2020, 45 days Public Review)
- C. Regional Planning Commission (RPC) Hearing (Early 2021)
- D. Los Angeles County Board of Supervisors Hearing & Final EIR (Early 2021)



Green Zones Program ContactContactos del programa de zonas verdes

Project Manager: Tahirah Farris

Email: tfarris@planning.lacounty.gov

Project Website:

http://planning.lacounty.gov/greenzones

Project Email:

<u>GreenZones@planning.lacounty.gov</u>

Social Media:

Twitter, Facebook, Instagram: @LACDRP



GREEN SPACES— POTENTIAL CERP POLICIES





• Identify sources and/or programs that can provide funding for green space expansion



Agencies or entities to identify sources and/or programs that can provide funding for green space













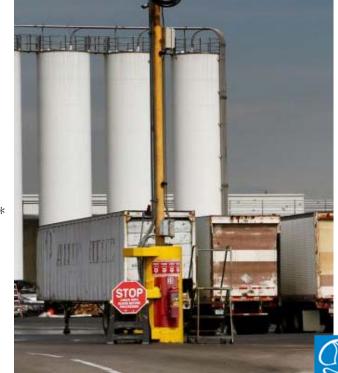
DISCUSSION



QUESTIONS AND COMMENTS?

EXIDE CLEAN-UP EFFORTS

- Exide Technologies was a battery recycling facility in Vernon which caused lead soil contamination in SELA community
- Closure operations began in Nov 2017 and overseen by DTSC
- In the Spring of 2020, contractors conducting residential cleanup 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)*



*Updates and the most recent information can be found here: http://www.aqmd.gov/home/news-events/community-investigations/exide-updates/compliance-permitting-toxics#RecentC

AB 617 – 2020 COMMUNITY STEERING COMMITTEE SCHEDULE (SELA)

January 9, 2020	Community Kick-off Meeting Salt Lake Park (Huntington Park) 6:00 – 8:30 pm	July 23, 2020	Workshop and Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm
February 6, 2020	Community Steering Committee Meeting Ross Hall at Veterans Park (Bell Gardens) 6:00 – 8:30 pm	August 27, 2020	Workshop and Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm
March 12, 2020 and April 9, 2020	Community Steering Committee Meetings – Postponed	September 17, 2020	Workshop and Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm
May 7, 2020	Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm	October 8, 2020	Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm
June 11, 2020	Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm	November 5, 2020	Community Steering Committee Meeting Virtual Meeting 4:00 – 6:00 pm