

RICHMOND - SAN PABLO
COMMUNITY

PATH TO

CLEAN AIR

**Richmond – San Pablo Community Air Monitoring Plan
Steering Committee Meeting #13**

April 2020

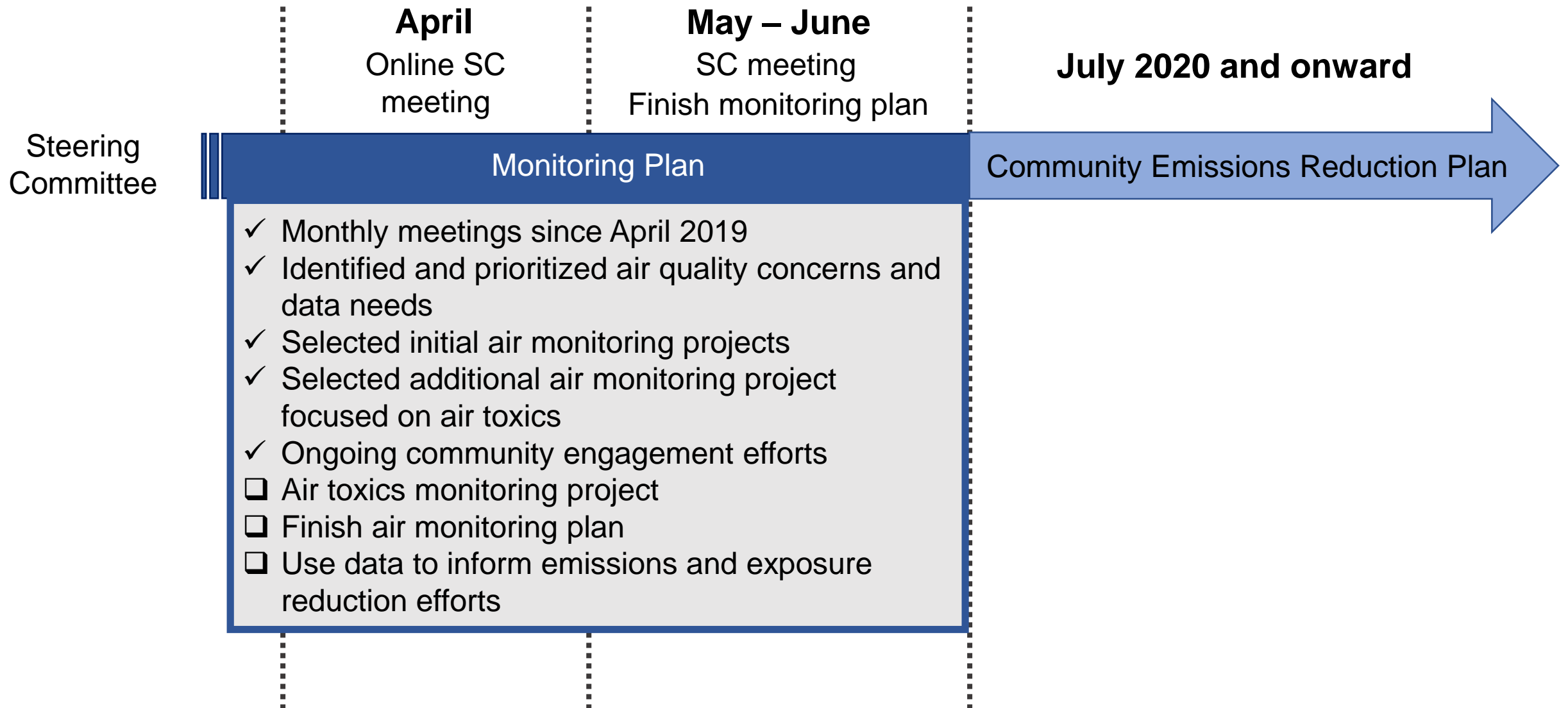
Meeting Agenda

- I. Welcome and Open Air Forum Review
- II. Announcements and Updates
- III. Initial Monitoring Projects
- IV. Air Toxics Monitoring Project
- V. Next Steps and Public Comments
- VI. Evaluation

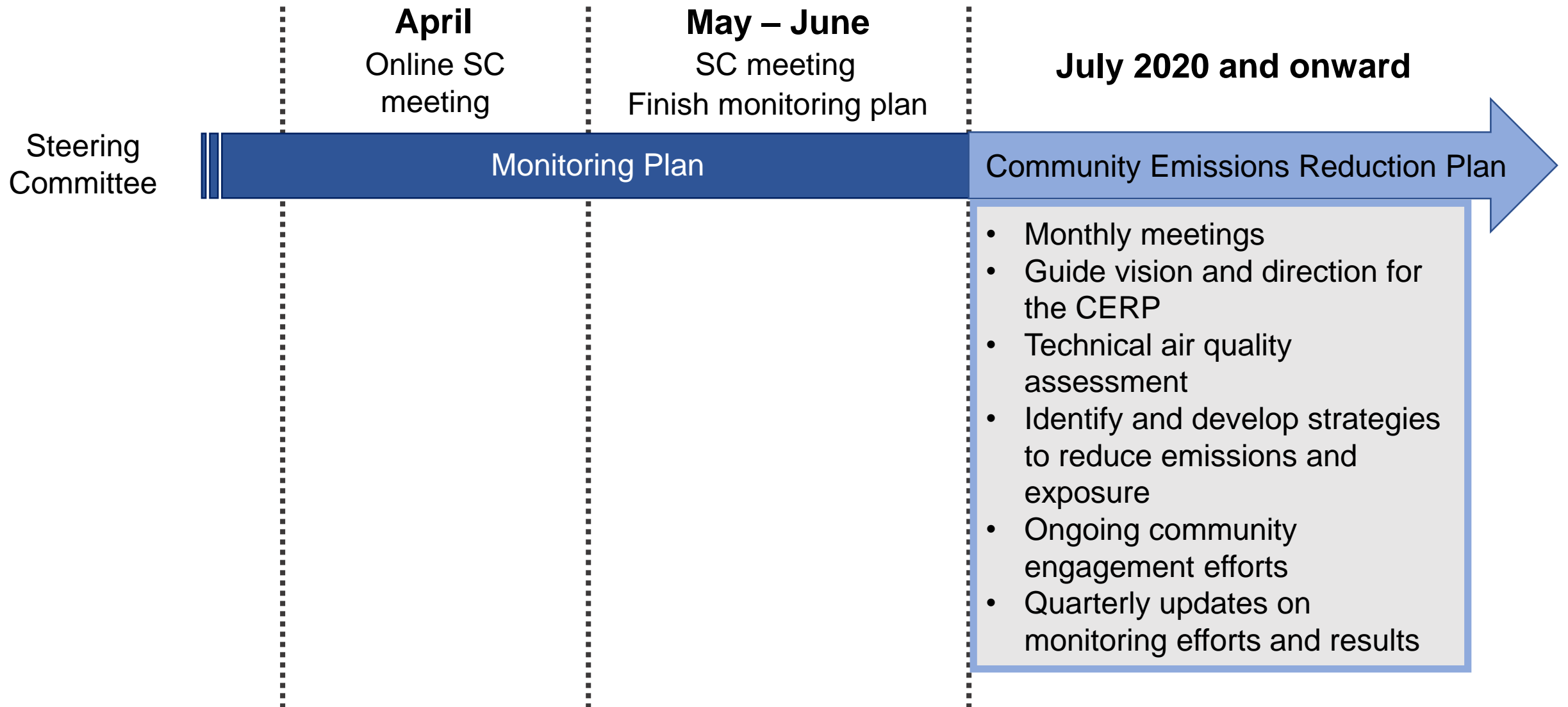
Select *Your Annotations* to begin!

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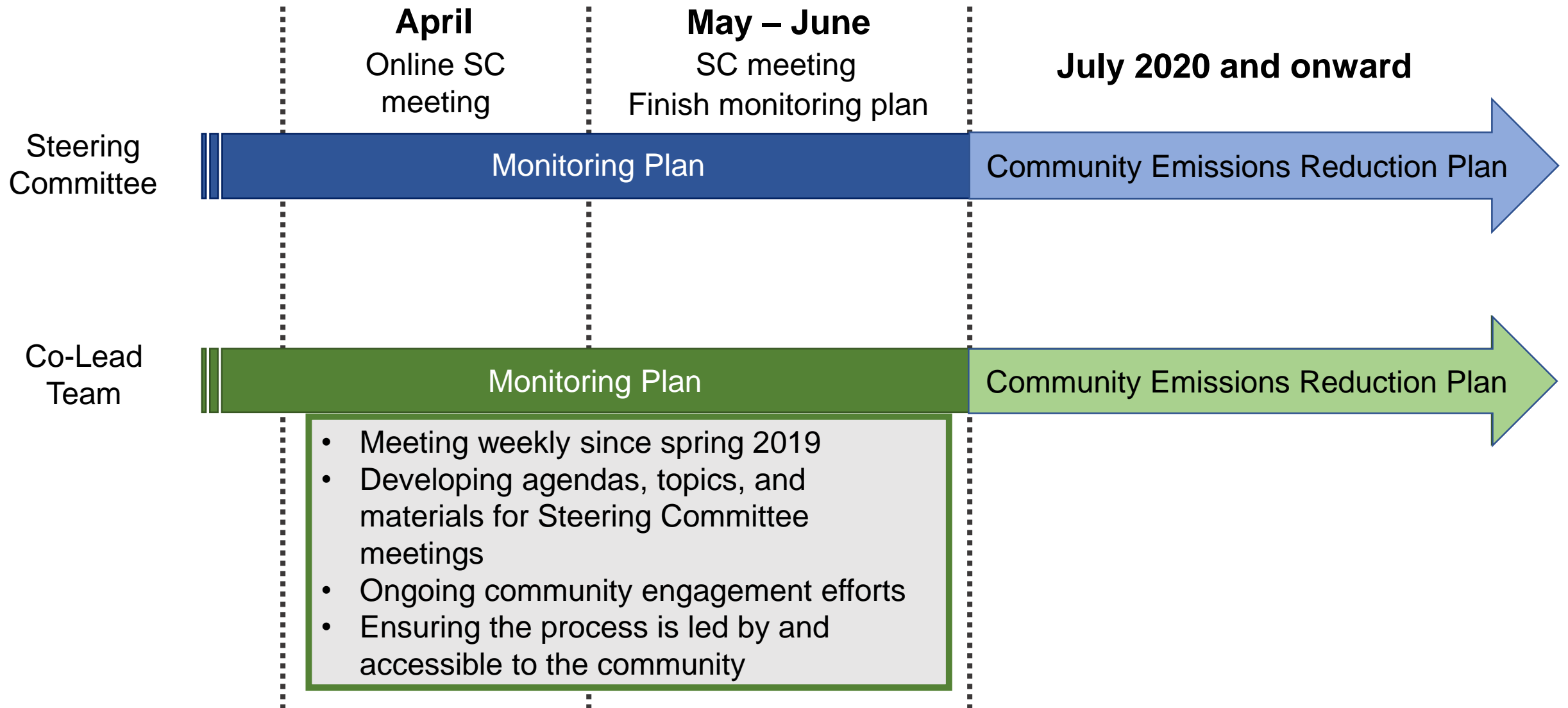
Path to Clean Air: Process Update



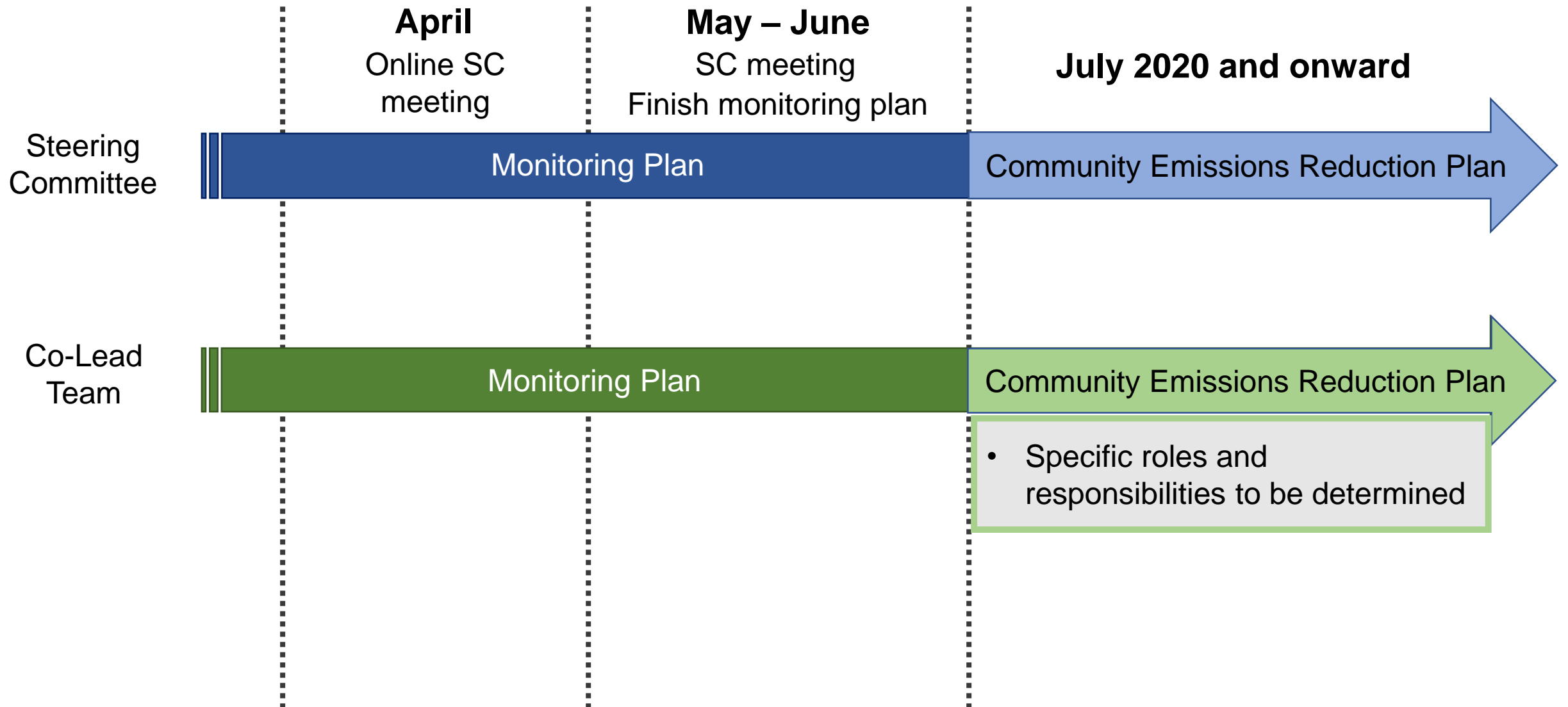
Path to Clean Air: Process Update



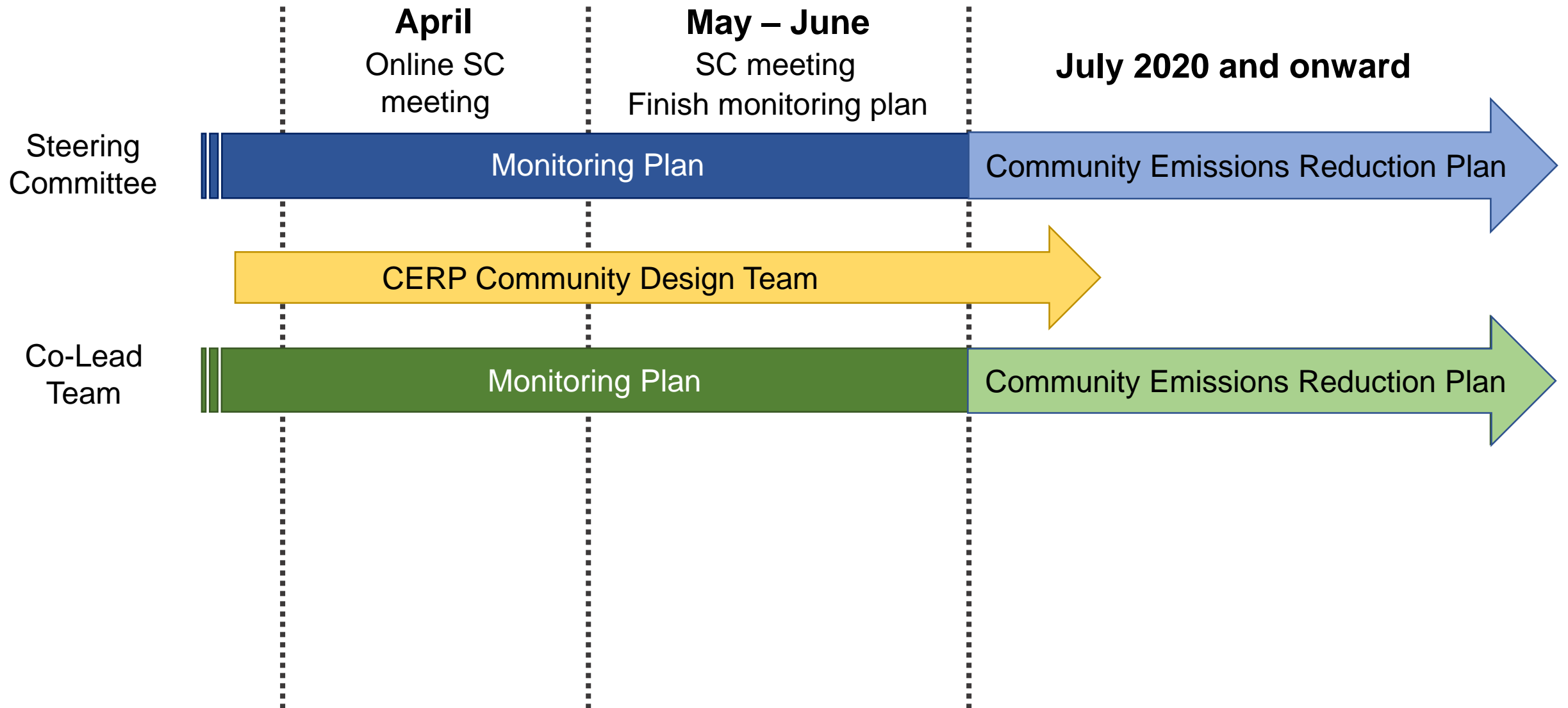
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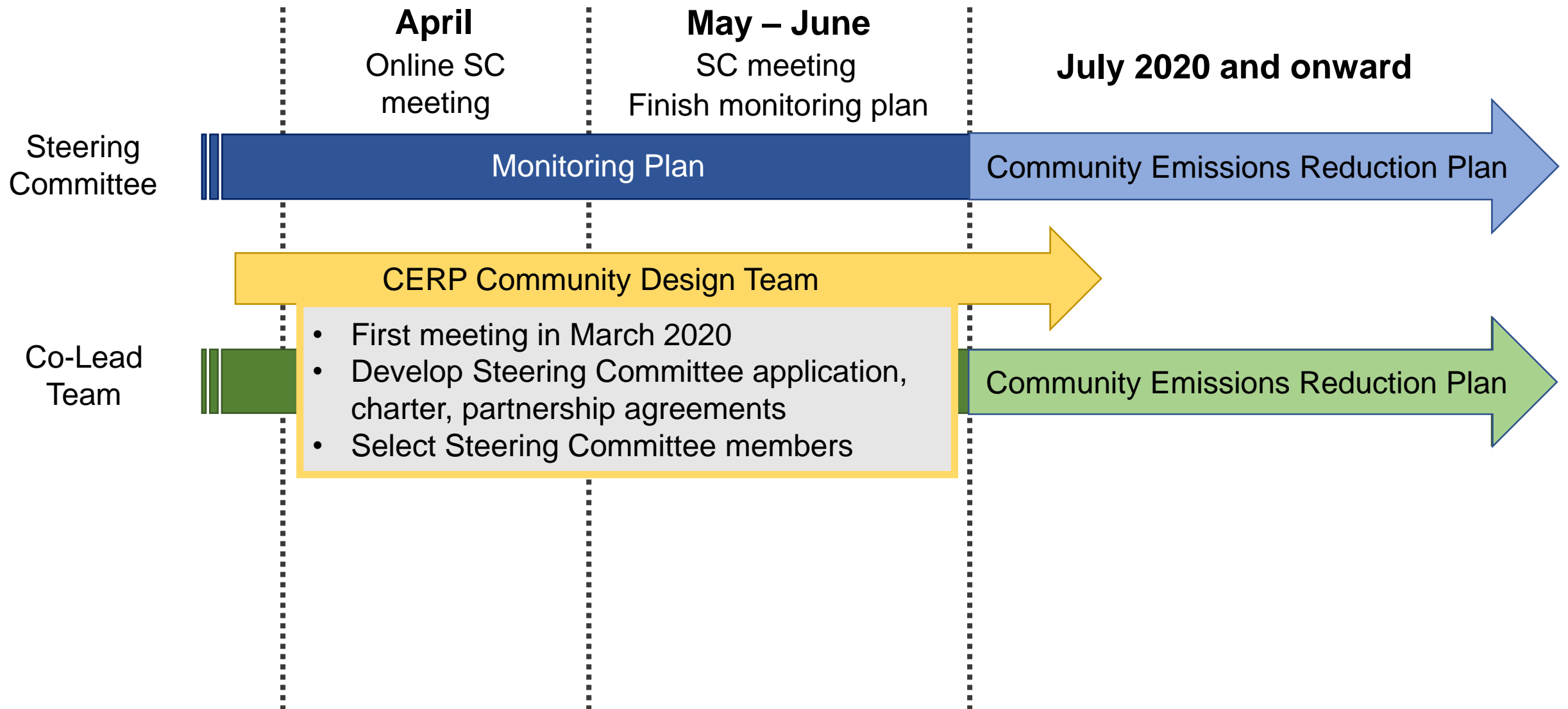
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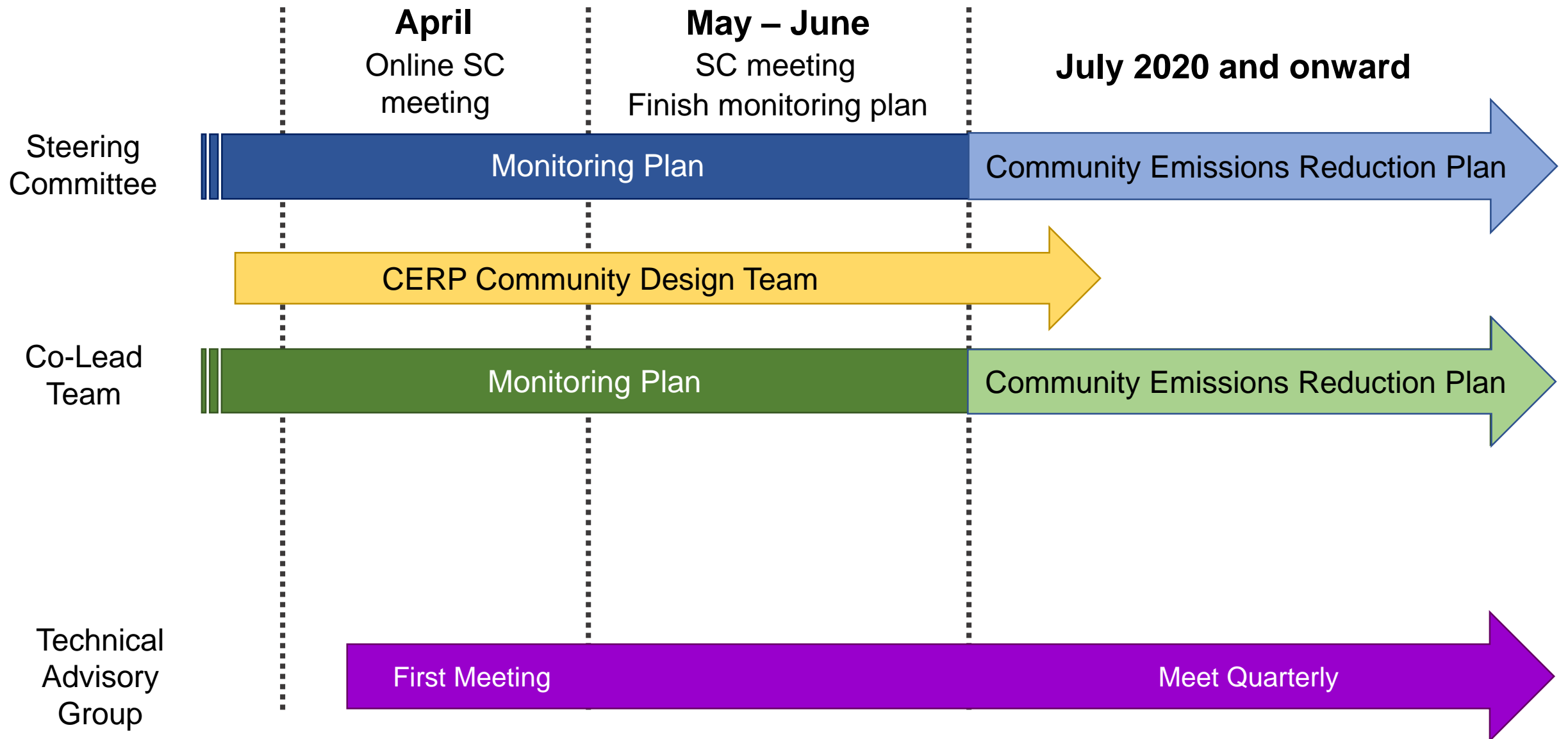
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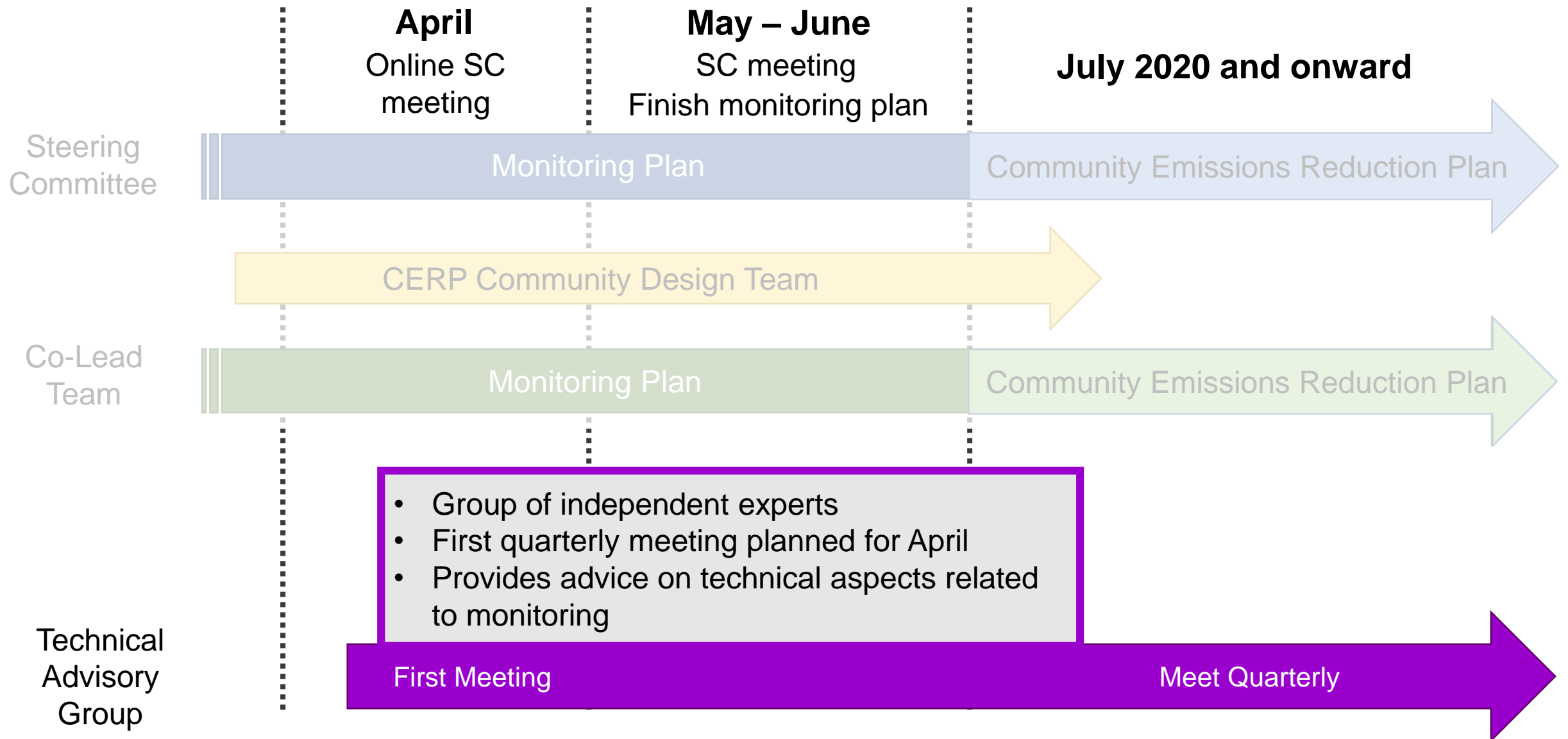
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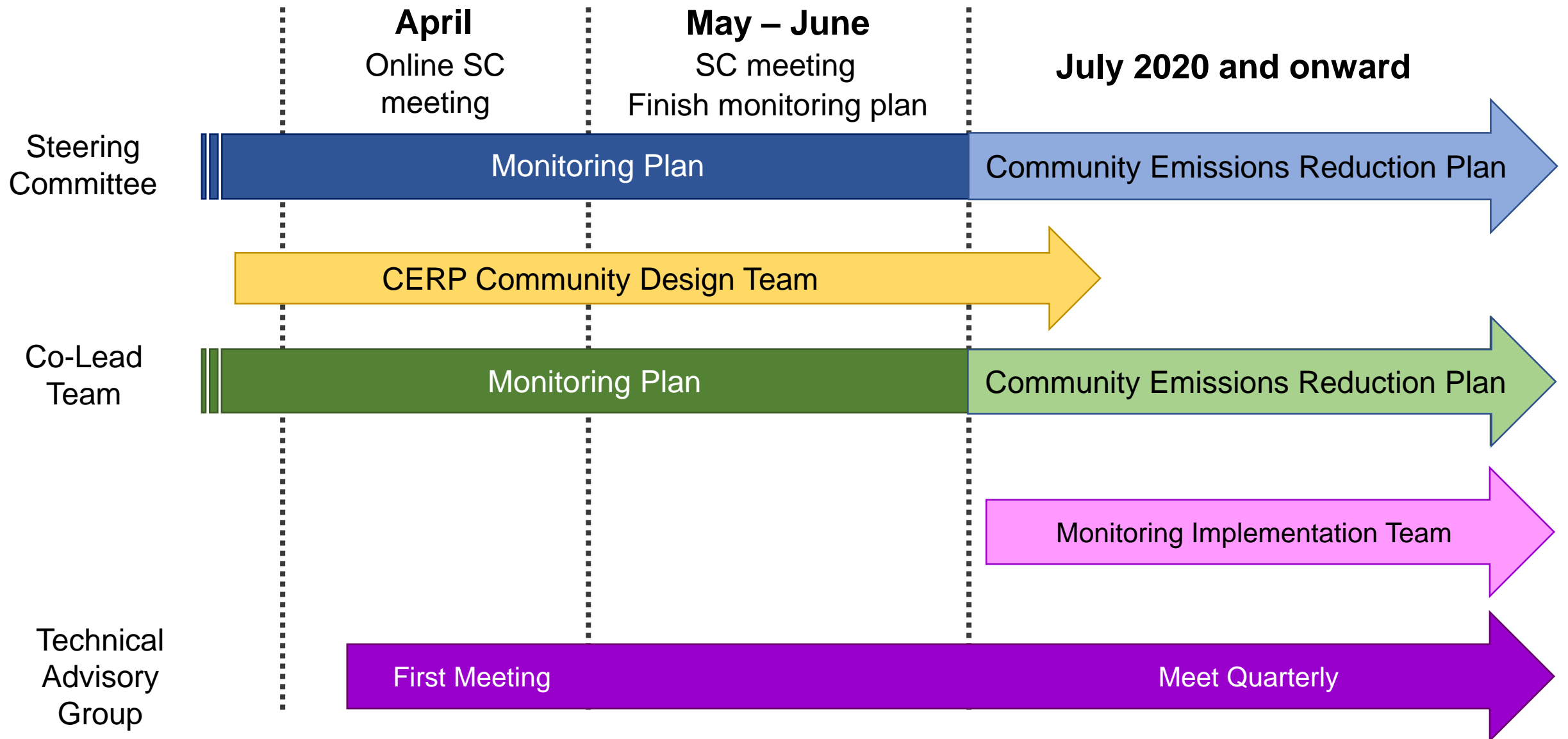
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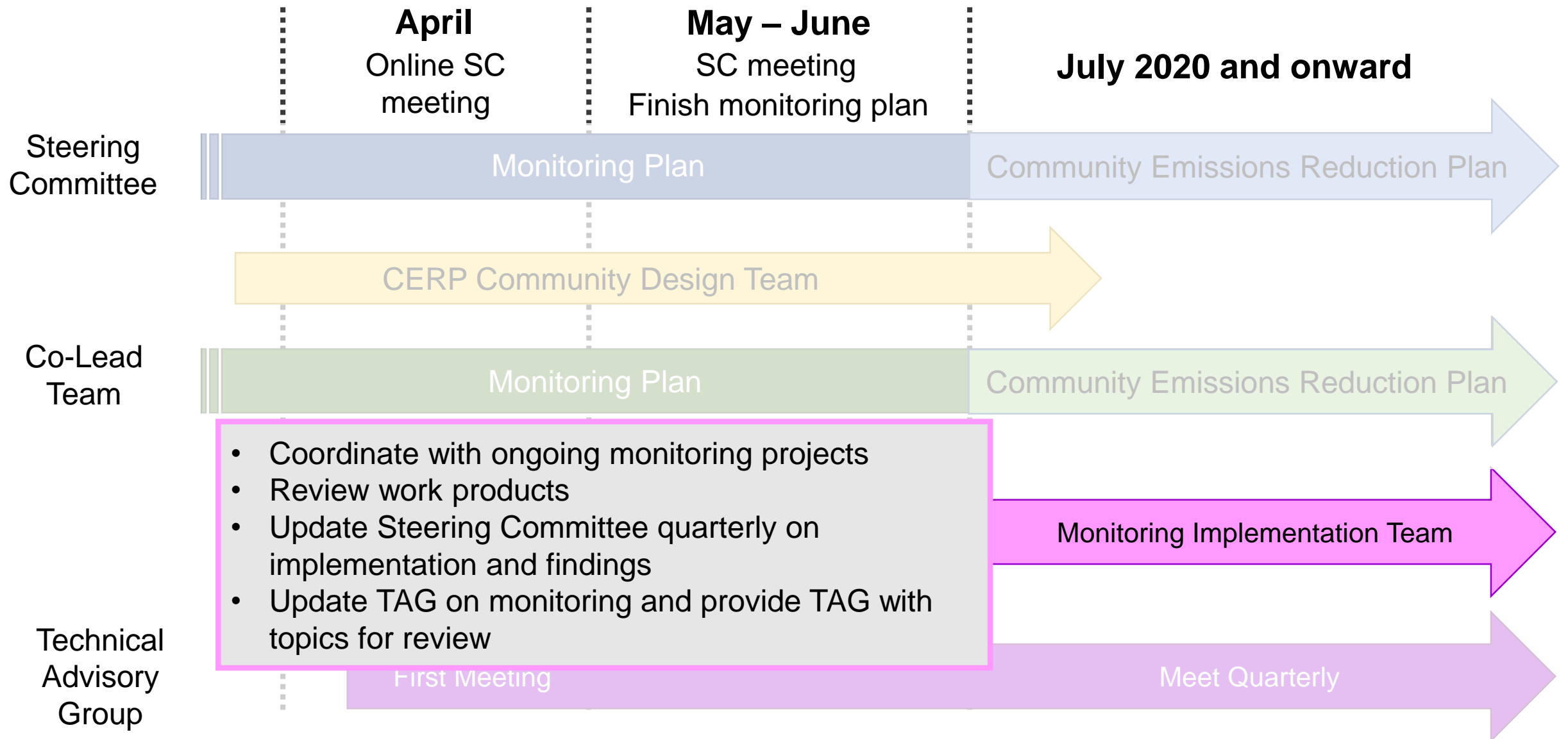
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Path to Clean Air: Process Update



Path to Clean Air: Process Update



Monitoring Implementation Team

- Coordinated by the Air District
- Looking for a few volunteers to help with technical work:
 - Coordinate between and track ongoing monitoring efforts
 - Prepare and review quarterly updates for the Steering Committee
 - Prepare updates on monitoring for the TAG and provide topics for the TAG to review
 - Review work products, such as data reports and edits to the monitoring plan
- Meetings primarily through online calls/webinars; meeting frequency about every other week

Implementing the Monitoring Plan: Other Ways to Stay Informed

- Attend Steering Committee meetings quarterly to hear about ongoing monitoring and results
- The Air District and Monitoring Implementation Team will post updates routinely on Open Air Forum (think of it as a Path to Clean Air monitoring blog)

Technical Advisory Group

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Fern Uennatornwarangoon

Manager, Air Quality Projects,
Environmental Defense Fund (EDF)

- Works with community groups, local air quality experts, regulators and scientists to develop and implement policies and advocacy strategies to reduce air pollution and human exposure to it.
- Primarily focused on improving air quality in the transportation and goods movement sector, includes building partnerships with private sector actors to spur new solutions for clean air.



Paul English, PhD, MPH

Senior Branch Science Advisor, CA Dept. of Public Health

- Tracking California makes environmental health data and information publicly-available through a web-based data query system, data displays, and web tools and services (trackingcalifornia.org).
- Principal Investigator on a grant which developed the largest community-based air monitoring network in the country. This project was the model for CA state bill AB 617, which enabled funds for community-based monitoring.



Paul Cort

Staff Attorney, EarthJustice

- Leads Earthjustice's Right to Zero Campaign, which seeks to address air pollution in California by transforming the State's energy and transportation systems off of fossil fuel combustion.
- Chair of Earthjustice's Air Practice Group and an adjunct professor at the U.C. Hastings School of Law.
- Prior to joining Earthjustice in 2005, Mr. Cort was an air attorney with the U.S. Environmental Protection Agency.
- Grew up in Richmond, California.



Chelsea Preble

Lawrence Berkeley National Laboratory,
University of California, Berkeley

- UC Berkeley postdoctoral researcher and Berkeley Lab affiliate. She earned her BS in Environmental Sciences from Cal in 2010, and her MS and PhD in Environmental Engineering in 2013 and 2017 respectively.
- An expert on characterizing air pollutant emission sources, controls, and effects. She seeks to better understand air pollution trends that affect people and evaluate the real-world emissions impacts of new regulations and alternative energy technologies.



Andrés Soto

Communities for a Better Environment

- A life-long resident of the Bay Area and was educated in local public schools, including Richmond High School. Andres graduated from UC Berkeley majoring in Political Science.
- Has advocated for educational equity, immigrant rights, youth violence prevention, gun control, police accountability and environmental justice. He is the Richmond Organizer for Communities for a Better Environment, involved in building community power to hold polluters and regulators accountable in the Bay Area. He is the host of the eponymous El Show de Andrés Soto on KPFA radio.



Todd Tamura

Tamura Environmental, Inc.

- Air pollution consultant since 1993, focused on emissions quantification, from both stationary and mobile sources
- Conducted air toxics emissions inventory training for EPA Region 9; peer reviewer for EPA Small Business Innovative Research air pollution monitoring technology grant proposals
- Member of Air & Waste Management Association; Executive Board member of New England and Golden West Sections
- Lead author of "Transportation and Particulate Matter: Assessment of Recent Literature and Ongoing Research"
- Peer reviewer for the Journal of the Air & Waste Management Association, Atmospheric Environment, and the TRB Transportation and AQ Committee



TAG Update

- The TAG Design Team nominated three liaisons to be in charge of communication and coordination between the Steering Committee and TAG: Julia Walsh, Oscar Garcia, and Matt Holmes.
- Steering Committee Members can contact liaisons for any questions, suggestions or requests related to the TAG.
- The liaisons' next step is to set up the first TAG meeting and arrange the meeting's agenda.
- We still have two more spots available on our TAG! One for an additional air monitoring/air pollution expert and one for a land-use expert. If you have any people you would like to nominate, please contact the liaisons.



Update on Monitoring Projects: CARB Grantees and Aclima



Additional Monitoring Projects: Air Toxics Monitoring Project

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Recap from February Meeting

- We considered options for additional air monitoring projects to help provide data sets and inform on air quality concerns that the initial monitoring projects do not
- The Steering Committee voted to move forward with air toxics monitoring



What are Air Toxics?

- Air toxics comprise a group of pollutants that are known or suspected to cause cancer or other serious health effects
- This project focuses primarily on **volatile organic compounds (VOCs)**
- VOCs include many chemical compounds and have many sources

Examples of Volatile Organic Compounds

- Benzene, toluene, ethylene, and xylene (BTEX) are gas air toxics commonly associated with petroleum operations and fuel combustion
- A subset of air toxics is polycyclic aromatic hydrocarbons (PAHs), typically produced through burning any type of fuel (oil, gas, coal, and wood)

Air Toxics Monitoring

What are some overall goals of this monitoring?

- Locate places where levels of air toxics are much higher than surrounding areas and determine if there are potential sources in or nearby those places
- Compare relative levels of air toxics from one location to another
- Compare new measurements to those from existing monitors
- Use findings to strategize emissions and exposure reductions efforts



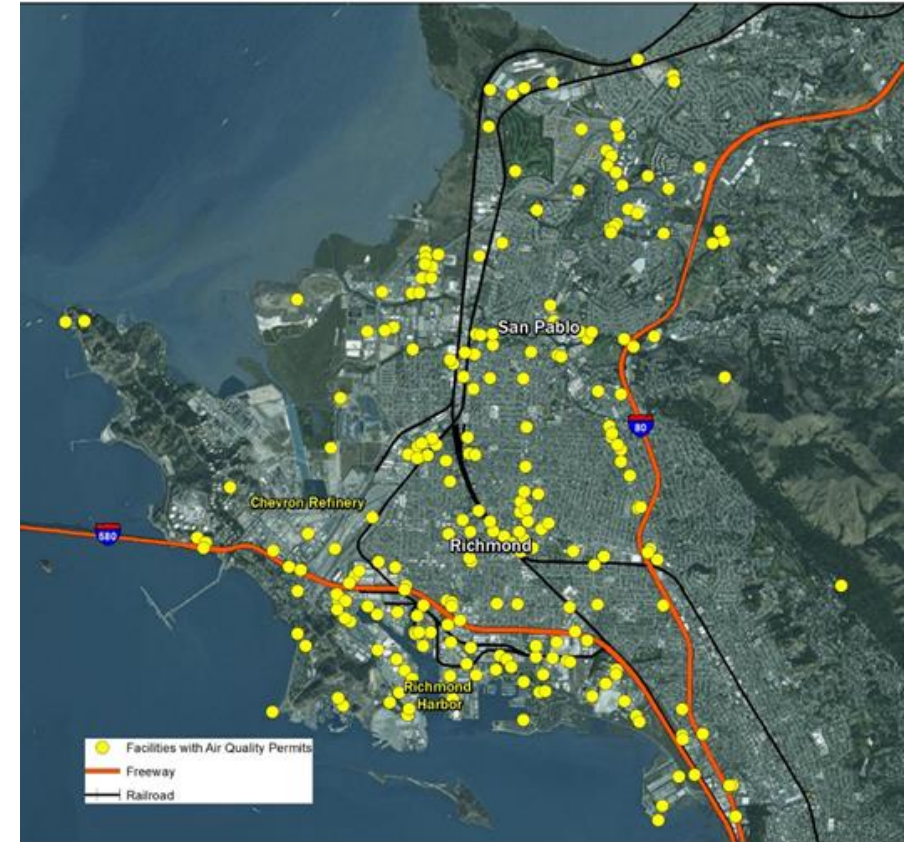
How to plan for measurements?

- Some questions to consider:
 - Where are the known or potential sources of air toxics in Richmond-San Pablo, and what do/could they emit?
 - What air toxics should we target?
- What information can we use?
 - Emissions inventories and other source information
 - Community-identified concerns
 - Odor complaints
 - Measurement capabilities



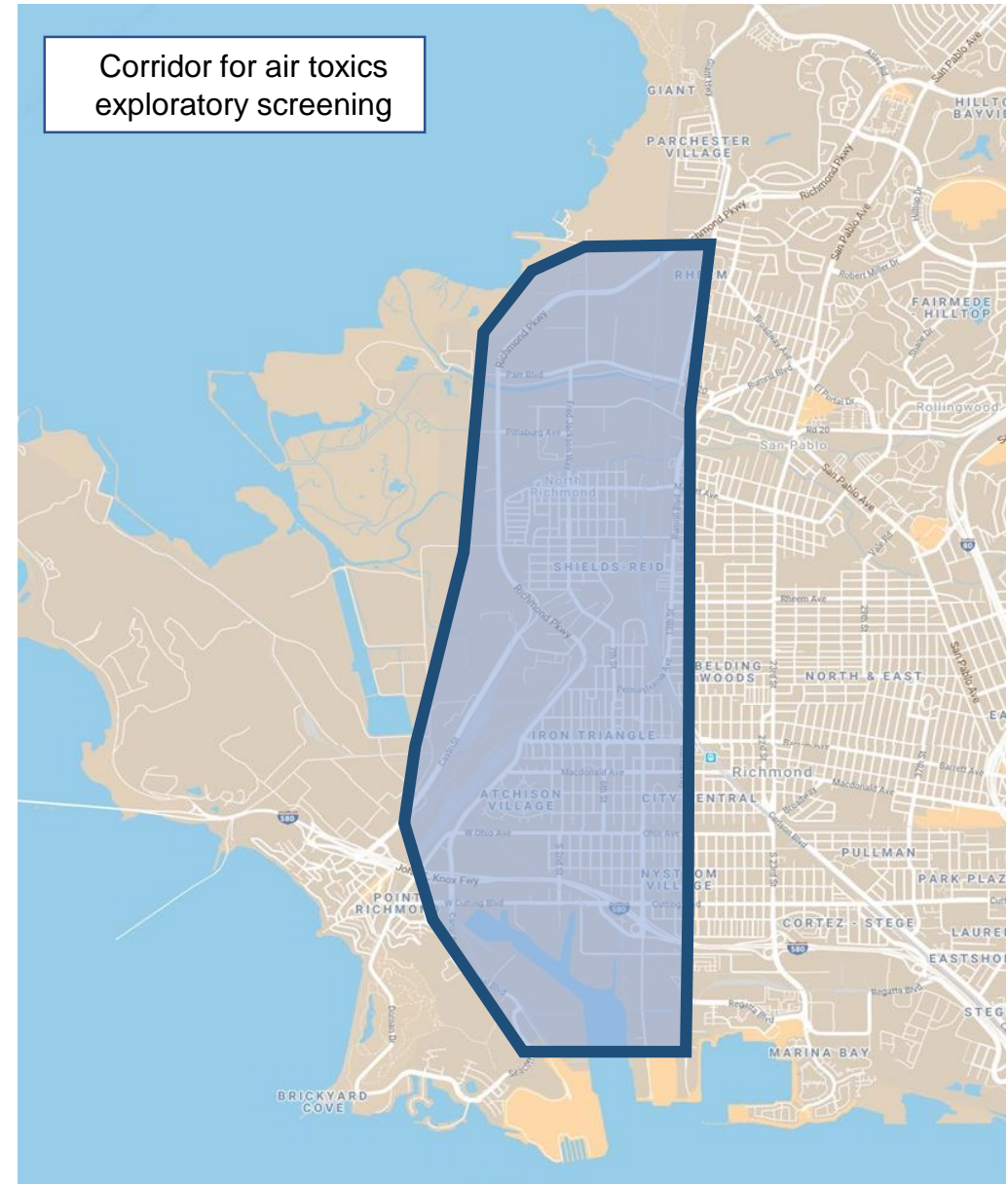
What does the emissions inventory represent?

- There are over 200 permitted facilities across Richmond-San Pablo
- Emissions inventory contains the amounts of certain pollutants that a facility reports that they emit
- Requirements of what and how facilities report emissions are often very specific, and there may be information gaps or other data needs
- There are many sources of air toxics in addition to permitted facilities



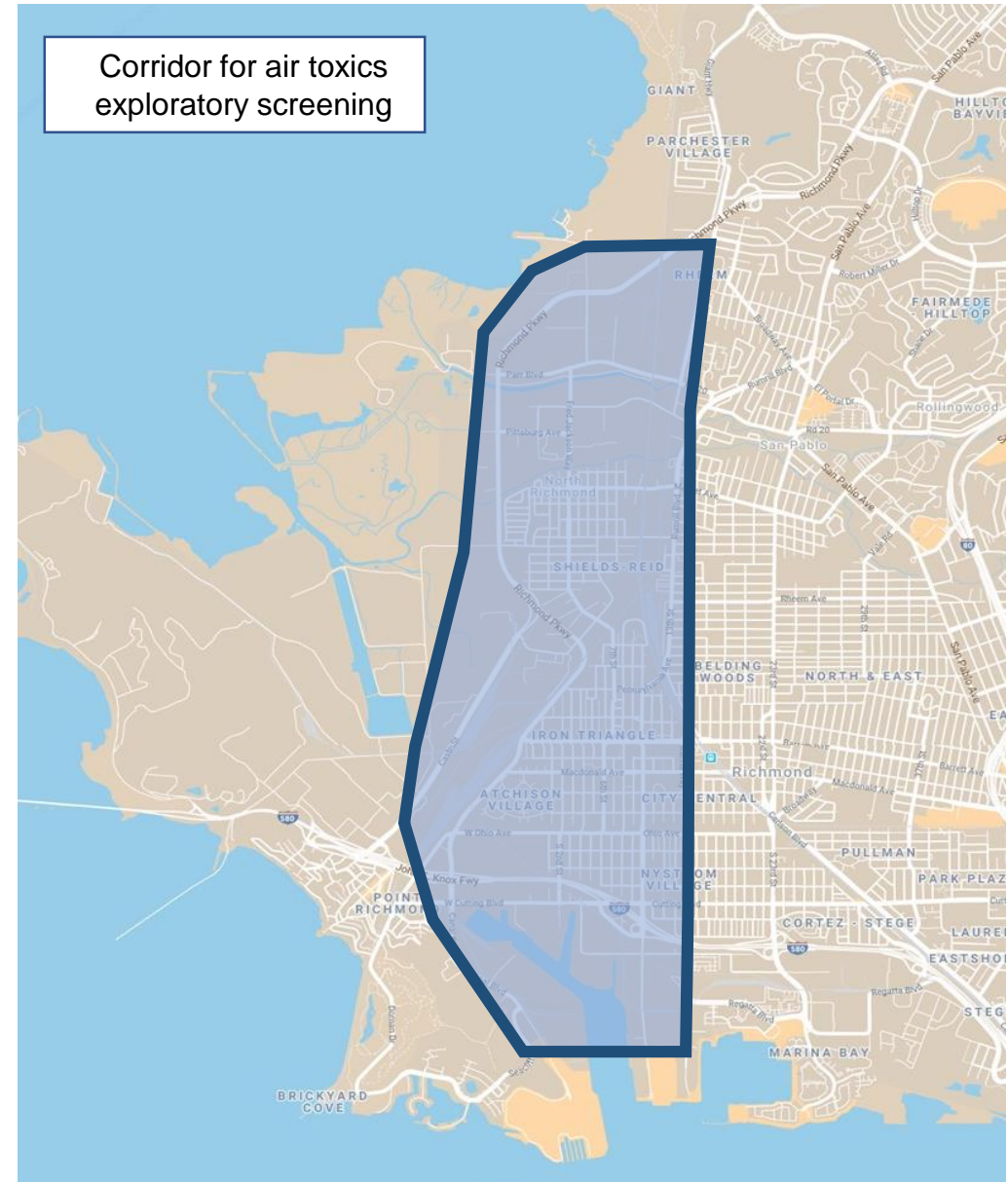
Monitoring Approach

- Exploratory screening for air toxics to identify places where concentrations are particularly high
- The corridor roughly between Richmond Parkway and 23rd Street contains many of the known and potential sources of air toxics and adjacent neighborhoods
- We can screen for some common air toxics in this area, while also targeting specific air toxics depending on what sources are nearby

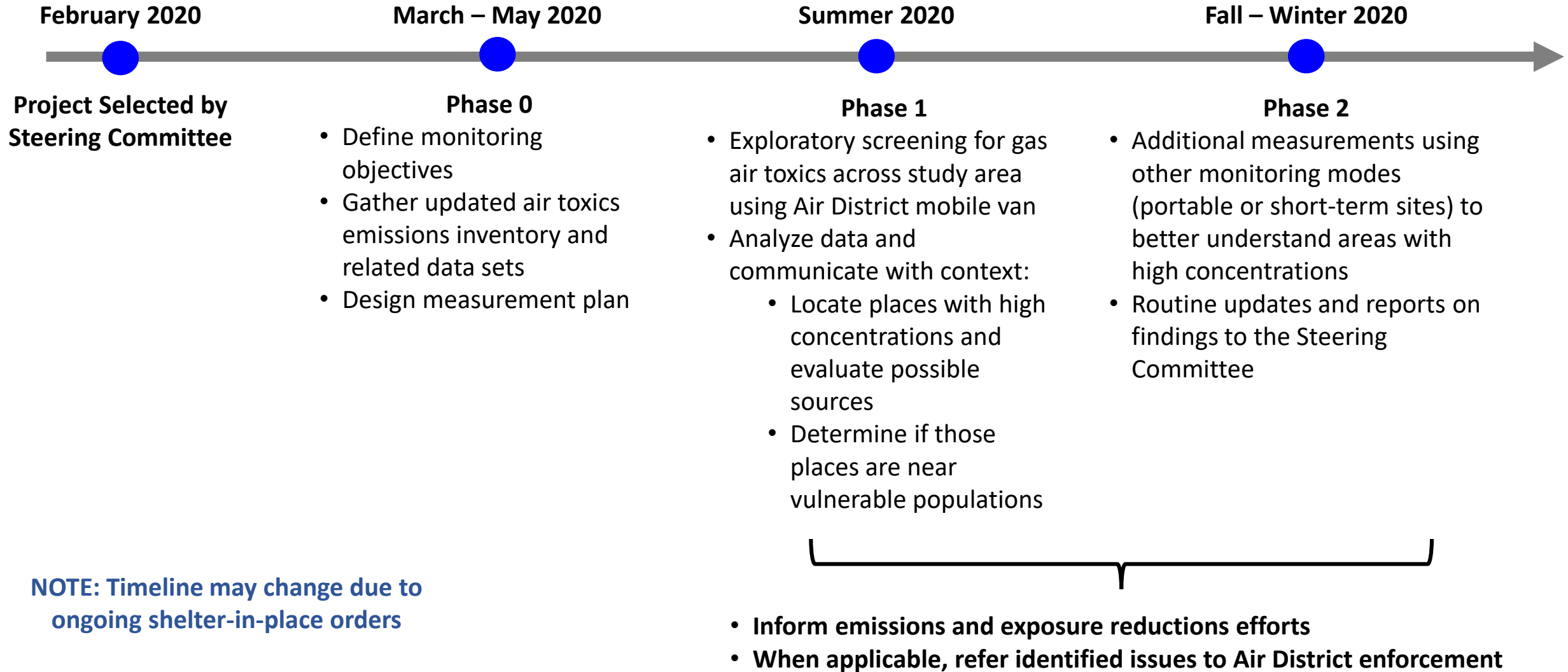


Monitoring Approach

- The process of doing exploratory screening measurements will be flexible
- Day to day, the data will inform how to focus in on identified problems, or continue looking elsewhere
- When high concentrations are found, follow up with additional measurements to help identify possible sources

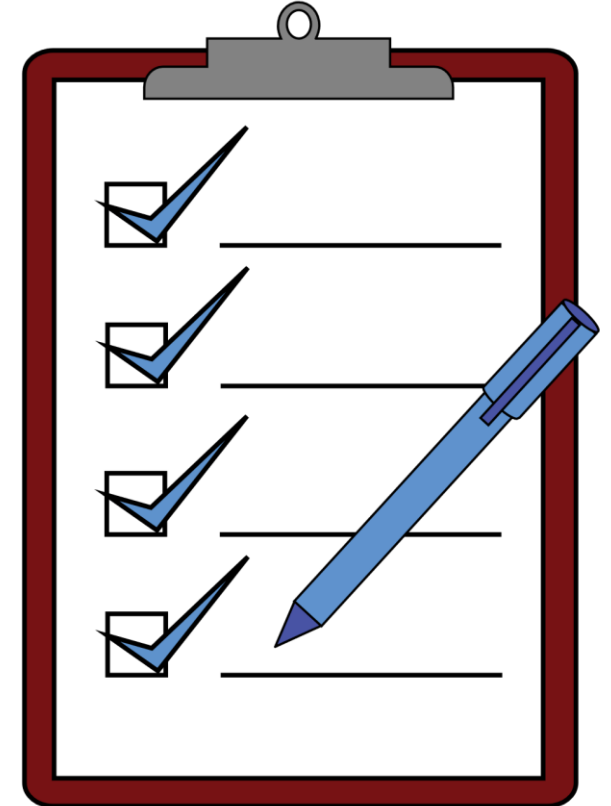


Timeline for Air Toxics Monitoring



Next Steps for Air Toxics Monitoring

- Provide your feedback using the Comments on Open Air Forum!
- The Air District will incorporate your responses and bring a built-out plan for the next Steering Committee meeting
- Begin exploratory screening measurements about a month after shelter-in-place



Public Comment

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Next Steps

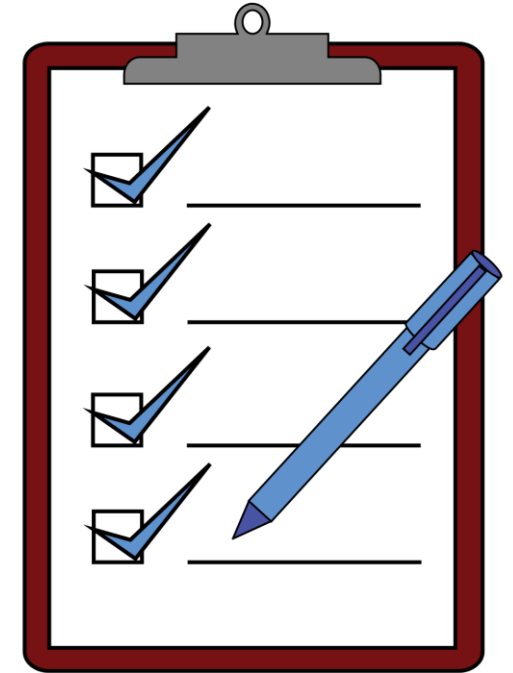
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Next Steps

- Join one of our **optional virtual office hours** via Zoom
 - **Wednesday, April 22 from 6-7PM**
Join here: <https://zoom.us/j/91936853470>
 - **Friday, May 1 from 1-2pm**
Join here: <https://zoom.us/j/97235294976>

Next Steps

- Next Path to Clean Air Steering Committee meeting will focus on the final draft of the Monitoring Plan and the path forward toward a Community Emissions Reduction Plan
 - **This may be an online meeting in June depending on the status of COVID-19**



Next Steps

- View past Steering Committee agendas, minutes, presentations, and other information:
<http://bit.ly/Richmond-SanPablo-CommunityHealth>



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