

South Sacramento – Florin Community Air Protection Steering Committee Meeting

September 24, 2019

Florin Creek Recreation Center
7460 Persimmon Ave, Sacramento, CA 95823

Agenda

- | | |
|-------------|--|
| 6:00 – 6:05 | Welcome/Introductions |
| 6:05 – 6:15 | Administrative items <ul style="list-style-type: none">a. Approve August meeting notesb. Announcementsc. Report from committee members |
| 6:15 – 7:15 | Community Air Monitoring Update <ul style="list-style-type: none">a. Monitoring objectives and actionsb. Air monitoring equipment and deploymentc. Public commentd. Low-cost sensor lending pilot program |
| 7:15 – 7:30 | Community Emission Reduction Program Presentation |
| 7:30 – 7:50 | Upcoming year discussion |
| 7:50 – 8:00 | Public comments |
| 8:00 | Adjourn |

Administrative Items

- Approve the meeting notes from August 24, 2019 meeting
- Announcements
 - Survey working group
 - NorCal Clean Fleet Technology and Expo – October 15 – 17, 2019
 - Particulate Matter Symposium: Spotlight on Health – October 28, 2019
 - Bay Area Metro Center
- Report from committee members

Community Air Monitoring Update



Element 1 - Community Partnerships

Outreach, community involvement, charter, website



Element 2 - Purpose for Air Monitoring

Community boundary, concerns, existing air quality information & gaps in information



Element 3 - Scope of Actions

Identifying concerns and desired action



Element 4 - Air Monitoring Objectives

- Defines objectives and summary of discussion
- Describes monitoring strategy
- Outlines the type of pollution measured



Element 5 - Roles and Responsibilities

Draft Monitoring Plan Elements

Preview of upcoming: Plan Development for Elements 6 -14

- **Element 11: Deployment Schedule (today's discussion)**
- **Element 8 : Monitoring locations (upcoming review)**
- **Elements 6, 7, 9, 10, and 13: Air monitoring procedures and methods**
- **Element 12: Process to evaluate effectiveness to ensure monitoring objectives are met (upcoming)**
- **Element 14: How to communicate results (upcoming)**

Draft Air Monitoring Plan

Initial thoughts on proposed language for concerns,
desired action, and monitoring objectives?

Equipment and Deployment Update

3 Phase Monitoring Strategy

Phase I
Initiated July 1, 2019

Initial Screening
Deploy 22 sensors



Phase II

Enhanced Screening
Deploy stand alone monitors



Phase III

Professional Grade
Deploy 1 portable trailer



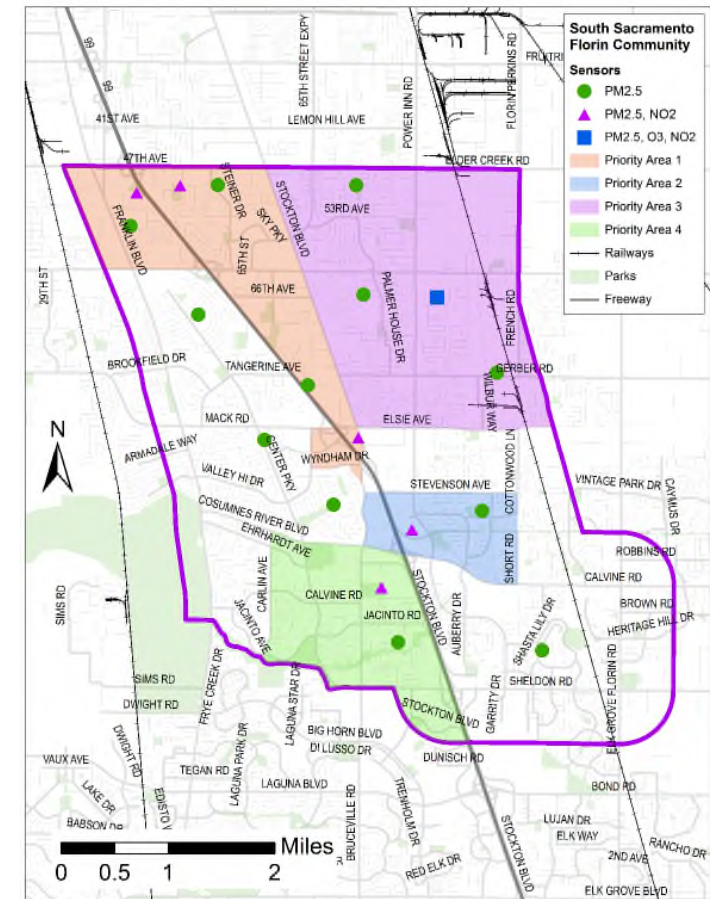
Equipment & Schedule Update

Phase I – Air Monitoring Sensor Deployment

- 21 locations, 22 Sensors (1 location, 2 sensors collocated (?))
 - 18 locations secured, 3 pending approval
- Currently deployed: 8
- Scheduled to be deployed: 10
- Waiting for delivery: 4

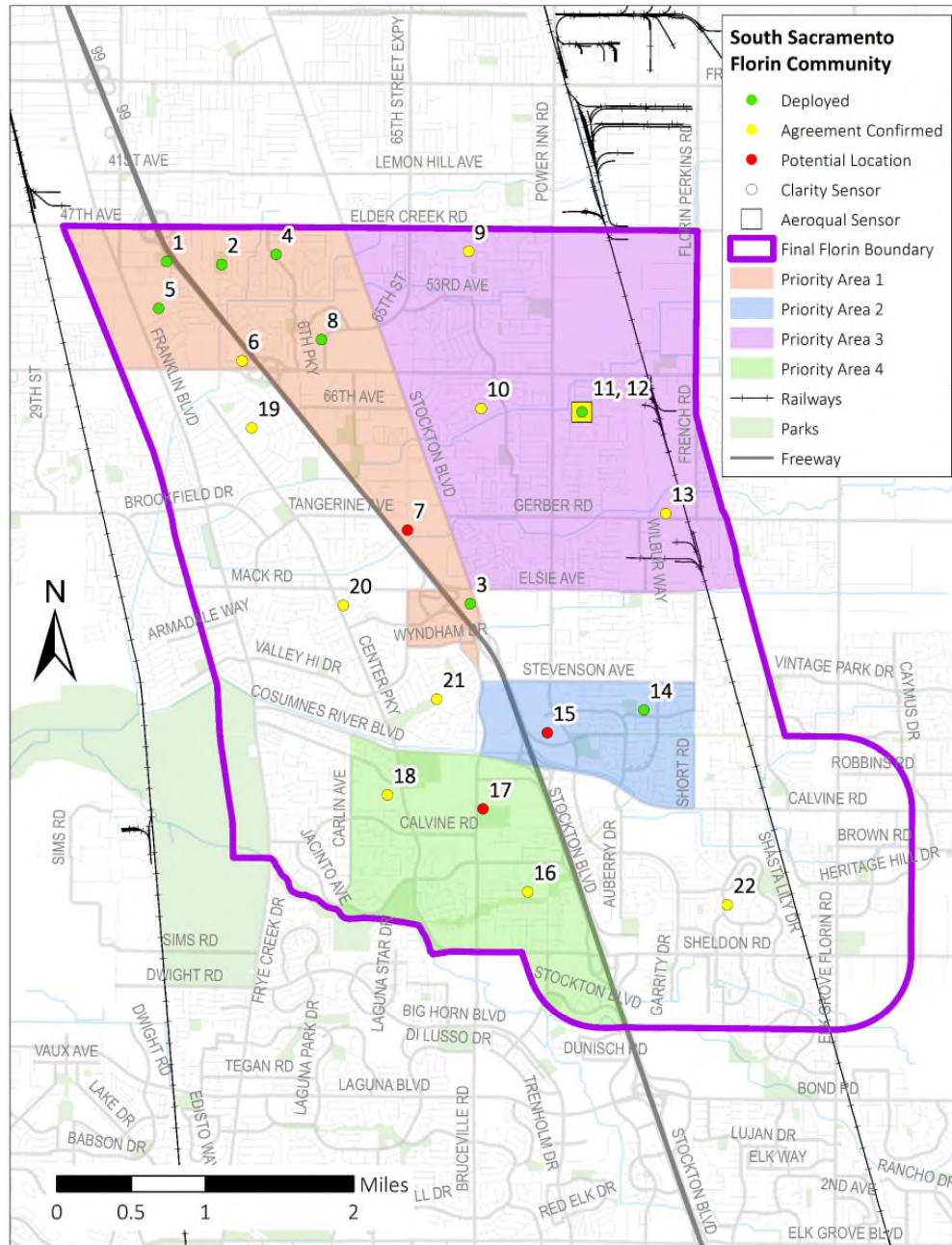
Phase II & Phase III

- Procurement of equipment underway
- Development of laboratory contracts

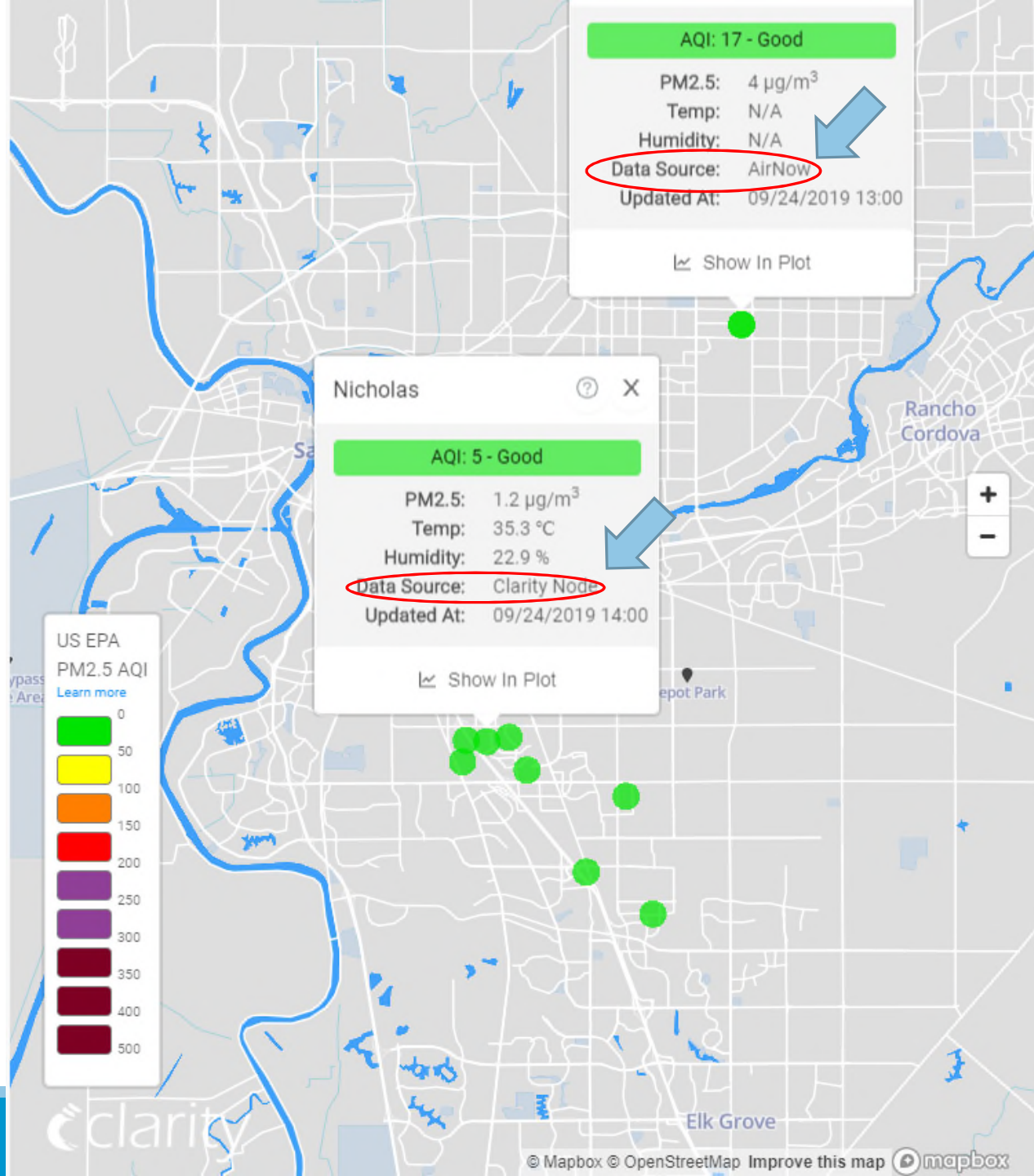


Adopted by Steering Committee on May 28, 2019

Included 4 additional sensors per request by Steering Committee



Number	Planned Phase I Locations (or Nearby)	Status
1	Bowling Green Park	Deployed
2	Nicholas Park	Deployed
3	Mack Road Partnership	Deployed
4	Nicholas Elementary School	Deployed
5	Bowling Green Elementary School	Deployed
6*	District Council 16	Agreement
7	Holiday Mobile Village	Pending
8*	Sac County Sheriff Service Center	Deployed
9	Camellia Elementary School	Agreement
10	David Reese Elementary School	Agreement
11*/12	Florin Elementary School (Clarity)/(Aeroqual) (?)	Deployed/Agreement
13	Elk Grove Adult and Community Education	Agreement
14	Isabelle Jackson Elementary School	Deployed
15	Sacramento County Clerk Recorder	Pending
16	Irene B West Elementary School	Agreement
17	Valley Hi-North Laguna Library	Pending
18*	Valley High School	Agreement
19	Parkway Elementary School/Parkway Swim Club (??)	Agreement/Agreement
20	Valley High Community Center	Agreement
21	Herman Leimbach Elementary School	Agreement
22	Raymond Case Elementary School	Agreement



U.S. EPA PM_{2.5} AQI

AQI Category	AQI Value	24-hr Average PM _{2.5} Concentration (µg/m³)
Good	0 - 50	0 - 15.4
Moderate	51 - 100	15.5 - 40.4
USG	101 - 150	40.5 - 65.4
Unhealthy	151 - 200	65.5 - 150.4
Very Unhealthy	201 - 300	150.5 - 250.4
Hazardous	301 - 500	250.5 - 500.4

Source: U.S. EPA,
<https://www.epa.gov/sites/production/files/2014-05/documents/zell-aqi.pdf>

Phase II - General Enhanced Monitoring Areas adopted by Steering Committee on May 28, 2019

[illegible]

Workgroup Exercise: Element 11

Deployment Schedule for Phase II & Phase III

3 Phase Monitoring Strategy

Phase I

Initiated July 1, 2019

Initial Screening
Deploy 22 sensors



Phase II

Enhanced Screening
Deploy stand alone
monitors



Phase III

Professional Grade
Deploy 1 portable trailer



Monitoring Exercise: Element 11

Deployment Schedule for Phase II & Phase III

- Goal: Discussion on monitoring schedule deployment for Phase II and Phase III (Trailer)
 - Recommend months to monitor for Phase II
 - Two workgroups then convene back together for discussion
- Committee recommendation requested at next steering committee meeting

Public Comments

Low-Cost Sensor Lending Program

- Pilot program with committee members to determine whether a South Sacramento community program is desired
 - Empower residents to collect air quality information
 - Provide an educational opportunity
 - Supports objective #1: Increase air quality awareness in the community by making air quality information readily accessible and easy to understand



Credit: www2.purpleair.com

If a program is desired...

Steering Committee Members:
Help us develop a
**South Sacramento – Florin
Community Program**



Sample Timeline



Background on Community Emission Reduction Program (CERP)

AB 617 Community Emissions Reduction Programs

SOUTH SACRAMENTO-FLORIN COMMUNITY STEERING COMMITTEE

SEPTEMBER 24, 2019

2019 Community Selection Process

- Start with CARB Board's direction from last year
 - Prioritize monitoring communities for moving into a community emissions reduction program, guided by data and Steering Committee recommendation
 - Draw from 2018 priority recommendations
- Provide continued support for the first set of communities
- Timeline
 - Fall 2019: Air Districts work with communities to submit recommendations
 - Fall 2019: CARB conducts outreach on proposed recommendations
 - Late 2019: Release final staff recommendations
 - December 2019: Board Consideration of additional communities

Actions in the Initial Set of Communities

Air districts are working with communities to develop:

- Community air monitoring (July 2019)
- Community emissions reduction programs (Oct 2019)



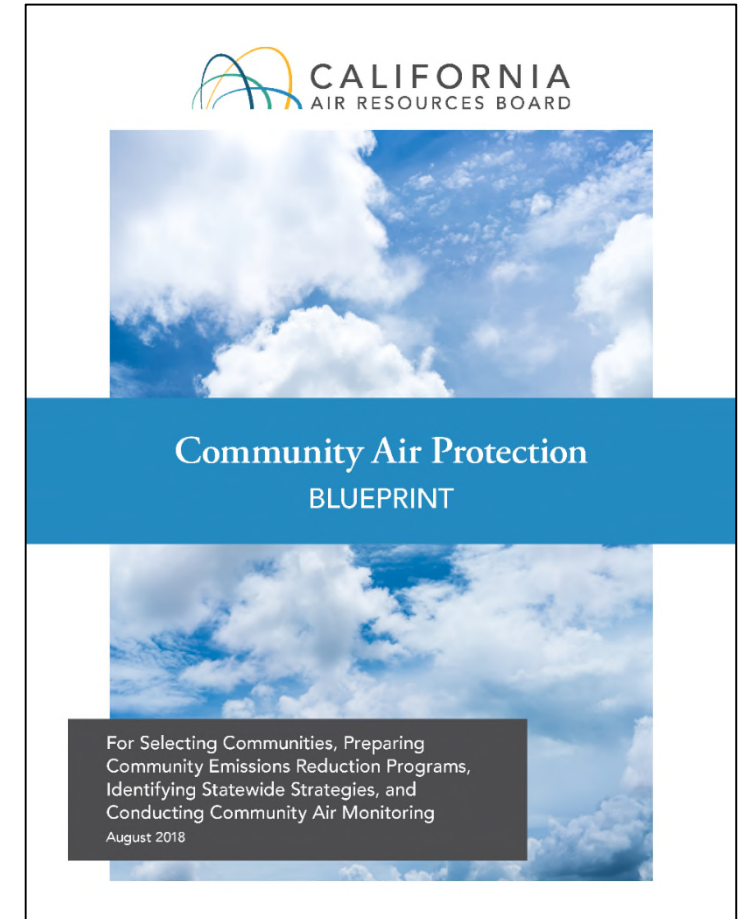
Community Focus: Reduce Cumulative Exposure to Air Pollution



Blueprint for Program Implementation

Defines statewide strategies and sets requirements for:

- Public engagement and community partnerships
- Selecting communities
- Conducting community air monitoring
- Developing community emissions reduction programs



Community Participation

Air District convenes a Community Steering Committee responsible for discussing:

- Community boundaries
- Community issues and concerns
- Strategy proposals
- Community outreach
- Mechanisms for engaging other agencies
- Other topics of interest



Criteria for Community Emissions Reduction Programs

APPENDIX C. CRITERIA FOR COMMUNITY EMISSIONS REDUCTION PROGRAMS

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COMMUNITY AIR PROTECTION PROGRAM

C-1

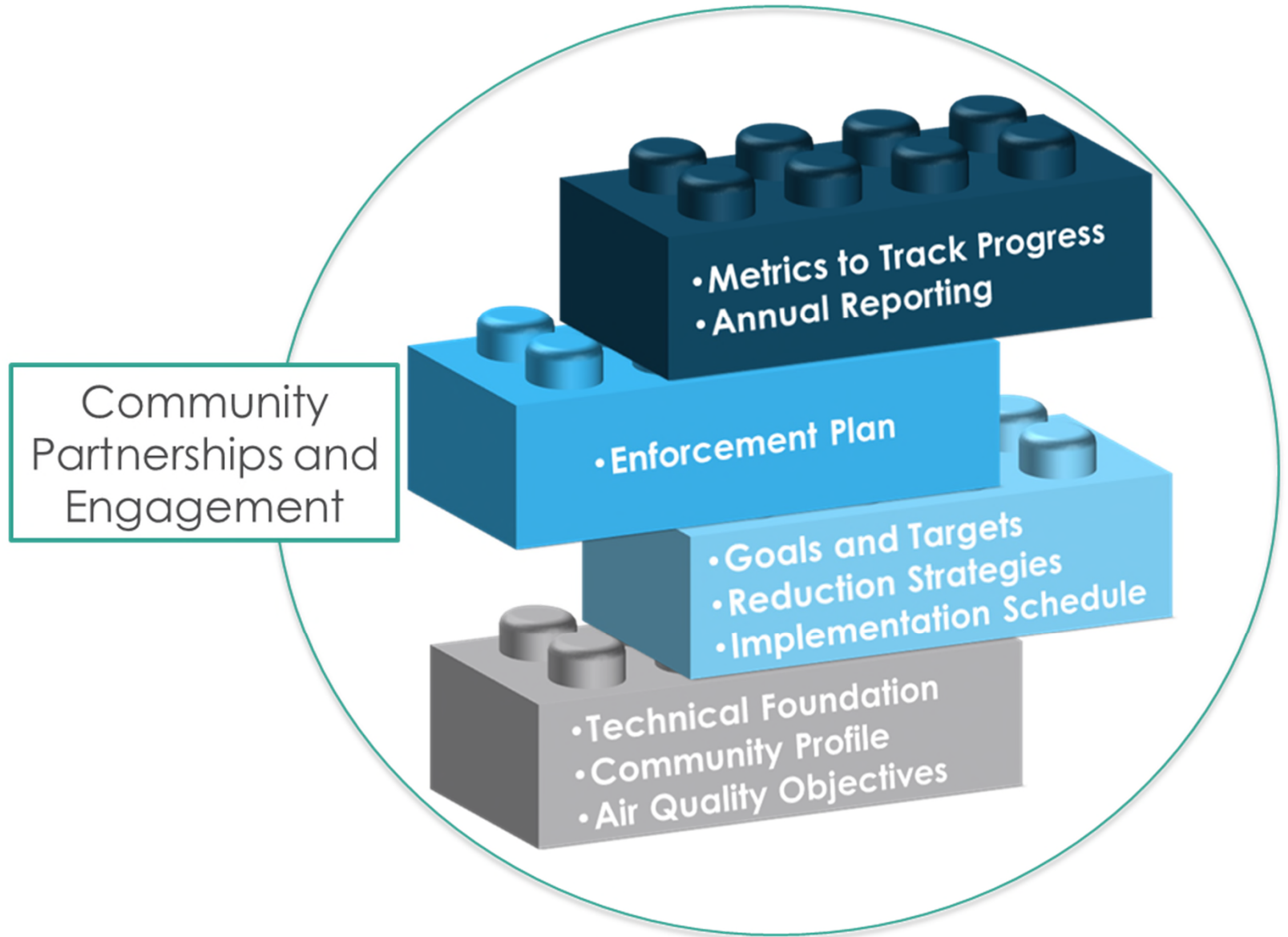
Community partnerships and engagement

What are the air pollution challenges facing the community?

What are the solutions?

How will we track progress over time?

Community Emissions Reduction Program Elements



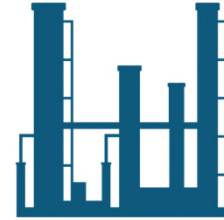
Reduction Strategies



Rules



**Facility-Specific
Risk Reduction**



**Air Quality
Permitting**



Incentives

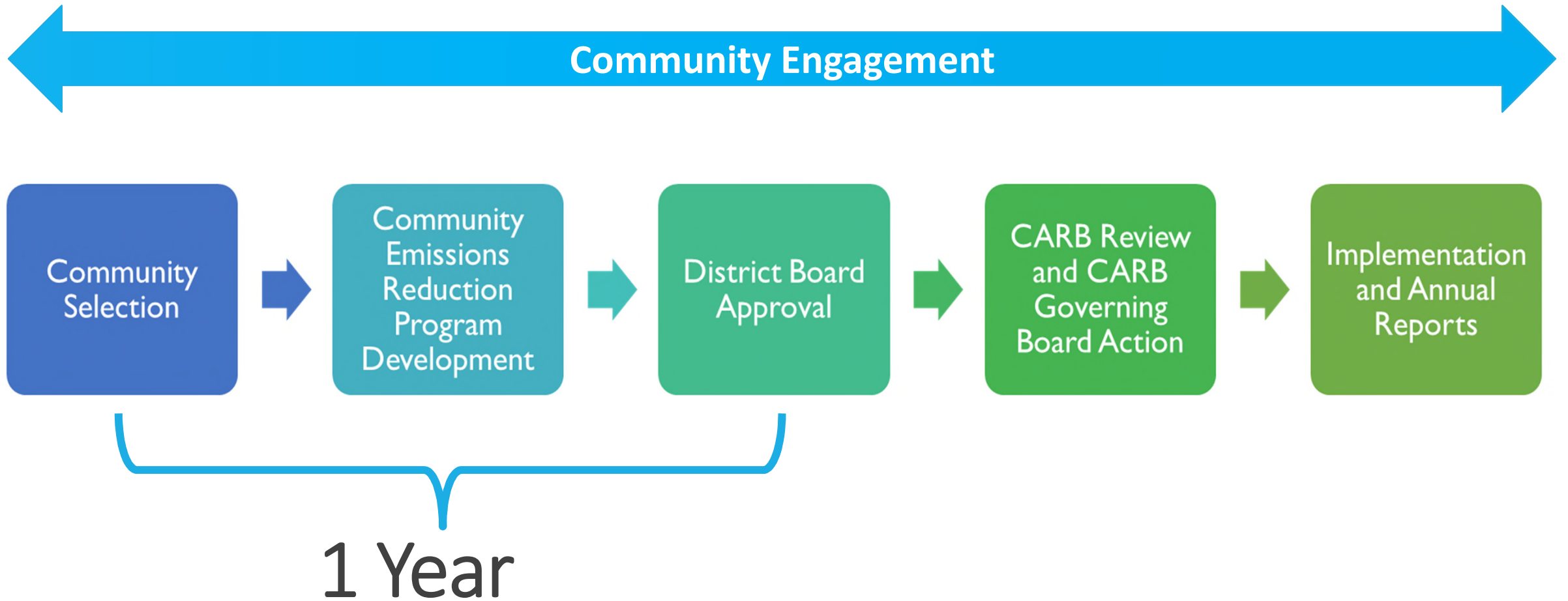


Enforcement



**Land Use, Transportation,
and Mitigation**

Process and Timeline



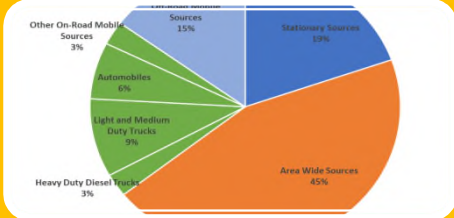
Questions?

Contact Us

Community Air Protection Program

- Email: CommunityAir@arb.ca.gov (o) AireComunitario@arb.ca.gov
- Phone: 916-322-7049
- CARB website: <https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program>
- Blueprint document: <https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program/community-air-protection-blueprint>
- Monique Davis: Monique.Davis@arb.ca.gov, 916-322-7304

Immediate Actions in South Sacramento - Florin



Development of a community-level emission inventory for South Sacramento – Florin community



Update penalty provisions to meet AB 617 mandates



Enhanced enforcement to identify any unpermitted sources



Community Air Protection Incentive Program

Upcoming Year Discussion

- Facilitator
- Year 2 –Steering Committee Membership extension per charter (?)
 - Helps with discussion on filling current vacancy
 - Received 5 applications, 3 meets requirements
- Agenda Topics & Process
- CERP decision & Elements 8, 11, 12 and 14

Agenda Topics

Monitoring Plan Elements	Other Agenda Topics
Element 8: Monitoring Locations	<ul style="list-style-type: none">• Sacramento Tree Foundation (Oct, 2019)
Element 11: Monitoring Deployment Schedule	
Element 12: Process for evaluating effectiveness	
Element 14: How to communicate results to support action	
Community Air Monitoring Plan	

Public Comments

Next meetings and locations:

October 8, 2019 – Florin Creek Recreation Center (if needed)

October 22, 2019 – Bowling Green Elementary School (tentative location)

December 3, 2019 – Bowling Green Elementary School (tentative location)

Adjourn

Extra Slides

How are these low-cost sensors different?

Traditional Air Monitors

- Fixed at one location
- Highly accurate
- Expensive

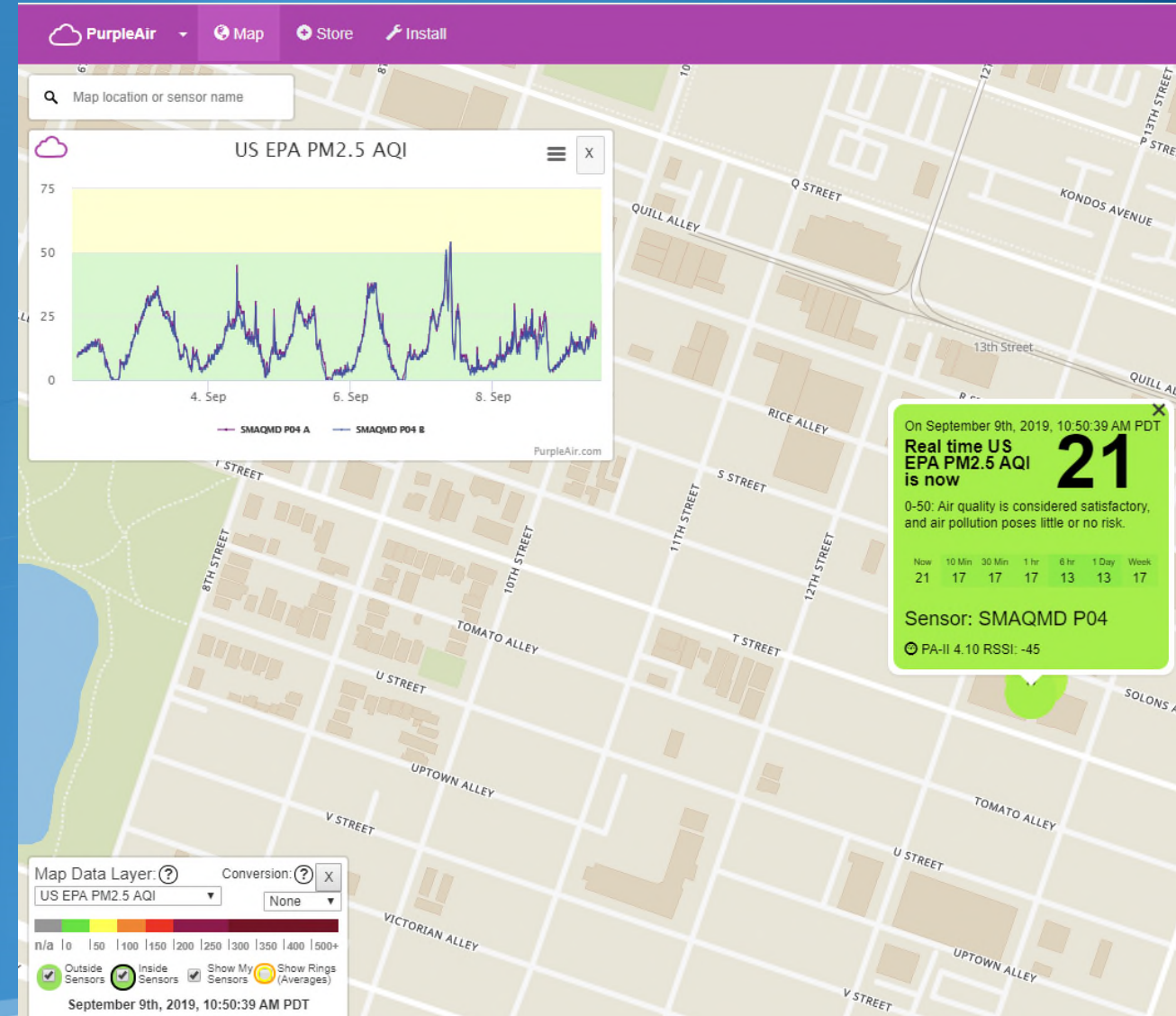
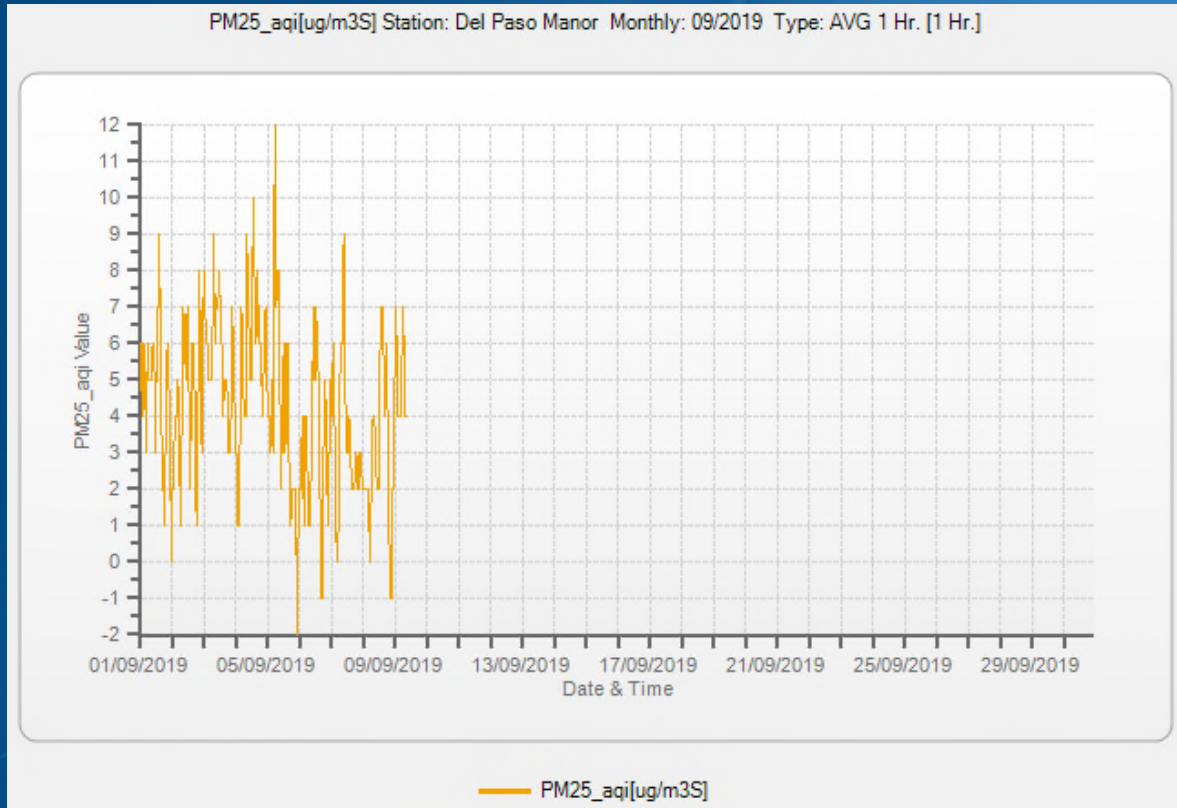


Low-Cost Sensors

- Mobile, easy to relocate
- Can be used indoor/outdoor
- Relatively inexpensive



Regulatory Monitors vs Low-Cost Sensor Maps



Program Development Elements

- **WHO?**
 - Suggestions on application process and improving accessibility
- **WHAT?**
 - What is needed to prepare for public deployment
- **WHEN?**
 - Choosing the target deadline for public deployment
- **HOW?**
 - How best to conduct outreach, how often, communication methods
- **WHERE?**
 - Whether the public deployment will be confined to AB 617 communities

Element 4: Air Monitoring Objectives

Presented, discussed, and agreed upon at the March 26, 2019 Steering Committee Meeting			Draft Monitoring Plan
Concerns	Desired Actions	Objectives	Objectives
Need to increase air quality education and outreach efforts	<ul style="list-style-type: none"> Partner with the Sacramento City Unified School District and Elk Grove Unified School District to educate students on air quality Develop a public air quality awareness plan, which would include methods to notify the community Develop a central repository/location where the public can find out more information Increase efforts to reach more people through social media Provide information in multiple languages 	<ul style="list-style-type: none"> Increase air quality awareness in the community Make air quality information easily accessible Make information easy to understand 	Increase air quality awareness in the community by making air quality information readily accessible and easy to understand.
Emissions from Highway 99/traffic	<ul style="list-style-type: none"> Electrical infrastructure should be located at the most used off-ramps Provide incentive funding for alternative modes of transportation such as carpooling/telecommuting More truck enforcement in the community Increase communication with other applicable agencies, such as SACOG 	<ul style="list-style-type: none"> What portion of emissions from traffic are heavy duty vehicle vs light duty vehicle? On-road vs. off-road How far does the impact of traffic-related pollutants from Highway 99 extend? Do the emissions from traffic impact schools/hospitals? 	Monitor for traffic related air pollutants (criteria and toxics). Determine the spatial distribution of pollution from traffic on Highway 99 and whether these emissions are significant at schools and hospitals.

Element 4: Air Monitoring Objectives

Presented, discussed, and agreed upon at the March 26, 2019 Steering Committee Meeting			Draft Monitoring Plan
Concerns	Desired Actions	Objectives	Objectives
Increasing rates of asthma and respiratory problems in the community	<ul style="list-style-type: none">• Partner with local health officials to evaluate if there's a correlation between adverse health impacts and air quality• Provide air quality information to the public so they can make informed decisions (i.e. when they should wear a mask if air quality is poor)	<ul style="list-style-type: none">• What are the air pollution exposures to sensitive receptors?• How do the impacts change with respect to seasons and locations?	Determine the air quality at sensitive receptor locations and whether air quality changes by season and locations for these sensitive locations
Emissions impacts from businesses	<ul style="list-style-type: none">• Determine if small businesses are contributing to poor air quality in the community• Increase education on incentives/grants that are available.• Promote incentive programs to businesses and identify opportunities to invest in clean air technologies	<ul style="list-style-type: none">• Determine which source categories the emissions are coming from and do they have a significant impact	Determine which source categories the emissions are coming from and whether the emissions from the sources contribute significantly to poor air quality in nearby area