

## Monitoring Plan Concerns, Actions and Objectives

The content in this document will be discussed at the August 27, 2019 Steering Committee Meeting under agenda item, Community Air Monitoring Update. The first three columns of the following table show the concerns, desired actions, and objectives that were presented, discussed and agreed upon at the March 26, 2019 Steering Committee Meeting. The last column is the objectives as described in the draft monitoring plan. Following the table are draft sections in the monitoring plan (pages 3-5) that are intended to capture the discussions of the Steering Committee. The District is asking if the concerns, actions and objectives are accurately reflected in the draft monitoring plan. Please provide comments to the District by September 6, 2019.

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"> <li>• Partner with the Sacramento City Unified School District and Elk Grove Unified School District to educate students on air quality</li> <li>• Develop a public air quality awareness plan, which would include methods to notify the community</li> <li>• Develop a central repository/location where the public can find out more information</li> <li>• Increase efforts to reach more people through social media</li> <li>• Provide information in multiple languages</li> </ul>	<ul style="list-style-type: none"> <li>• Increase air quality awareness in the community</li> <li>• Make air quality information easily accessible</li> <li>• Make information easy to understand</li> </ul>	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"> <li>• Electrical infrastructure should be located at the most used off-ramps</li> <li>• Provide incentive funding for alternative modes of transportation such as carpooling/telecommuting</li> <li>• More truck enforcement in the community</li> <li>• Increase communication with other applicable agencies, such as SACOG</li> </ul>	<ul style="list-style-type: none"> <li>• What portion of emissions from traffic are heavy duty vehicle vs light duty vehicle? On-road vs. off-road</li> <li>• How far does the impact of traffic-related pollutants from Highway 99 extend?</li> <li>• Do the emissions from traffic impact schools/hospitals?</li> </ul>	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.

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"> <li>Partner with local health officials to evaluate if there's a correlation between adverse health impacts and air quality</li> <li>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)</li> </ul>	<ul style="list-style-type: none"> <li>What are the air pollution exposures to sensitive receptors?</li> <li>How do the impacts change with respect to seasons and locations?</li> </ul>	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"> <li>Determine if small businesses are contributing to poor air quality in the community</li> <li>Increase education on incentives/grants that are available.</li> <li>Promote incentive programs to businesses and identify opportunities to invest in clean air technologies</li> </ul>	<ul style="list-style-type: none"> <li>Determine which source categories the emissions are coming from and do they have a significant impact</li> </ul>	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

# Concerns and Scope of Actions – Draft

## **Concern #1**

Need to increase air quality education and outreach efforts

### Desired Action

#### **Implement better and more targeted public outreach and education efforts.**

Communication is a key factor in making the public become aware of the air quality issues in their respective communities. The public outreach and engagement should be able to reach all groups, including the minority population and young adults, and should be conducted using multiple methods, such as social media and door hangers. Steering Committee members noted that the lack of air quality awareness and education was evident during recent wildfires, where children were seen exercising in wildfire smoke and appearing to disregard health advisories. The following are specific desired actions developed to help address this concern:

- 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
- Provide information in multiple languages
- Increase efforts to reach more people through social media

## **Concern #2**

Emissions from Highway 99/traffic

### Desired Action

**Implement strategies to mitigate mobile source emissions impacts from Highway 99 and for other traffic within the community.** The data collected through this project will be important because it may be used to advocate for changes or solutions at a local and state level. Several of these strategies will require county-wide implementation and cooperation with many local and state agencies. Some of the desired actions to address the concern of the impacts from Highway 99 or other areas of high traffic may be using District programs that incentivize clean mobile source technology. Possible incentive projects that could be implemented include addition or improvement to electrical vehicle charging and sharing infrastructure, diesel vehicle trade-in programs, replacement of dirty school buses with electric school buses, Clean Cars 4 All or Car Share program, and alternative transportation share programs, like the Jump Bikes.

Steering Committee members also stated that more enforcement of regulations on trucks needs to be done in the community. Another suggestion was to look into innovative programs, such as the use of tolls, to help incentivize more clean technology opportunities in the community. These actions would need coordination with other local and state agencies. To help achieve this desired action, the Steering Committee requested that there should be communication and cooperation with other agencies. The following are specific desired actions identified to help address this concern:

- Locate electrical vehicle charging and sharing infrastructure at the most used off-ramps
- Provide incentive funding for alternative modes of transportation such as carpooling /telecommuting
- Increase enforcement of truck regulations in the community

- Increase communication with other applicable agencies, such as SACOG

### **Concern #3**

Increasing rates of asthma and respiratory problems in the community

#### **Desired Action**

**Provide individuals within the community with the information needed to make decisions based on community air quality data.** The desired actions reflect concerns expressed by the Steering Committee regarding the health effects from air pollution, particularly asthma and other respiratory problems. Some Steering Committee members disclosed that this concern directly impacted them or someone they know. Part of the issue is air quality awareness, which is related to Concern #1. Although current programs exist to notify people of high pollution days, monitoring data could be used to support communication of health impacts and to improve access to community-specific data. The monitoring data could support increased and potentially more targeted education in lower income areas and higher minority populations within the community to inform residents. The specific actions for this concern are listed below:

- Work with local health officials to inform community about impacts of poor air quality and availability of air quality data.
- Provide air quality information to the public so they can make informed decisions (e.g. when they should wear a mask if air quality is poor)

### **Concern #4**

Emissions impacts from businesses

#### **Desired Action**

**Understand more fully the potential emissions contributions from small businesses to the nearby community areas and develop ways to mitigate those contributions.** The Steering Committee wanted to ensure that the desired actions do not unnecessarily harm small businesses. They expressed some desire to promote incentives and education programs as priorities with small businesses to help reduce their emissions and impacts to the community. Steering Committee members recognized that this is an excellent opportunity to invest in clean technologies; however, existence of these programs may not be widely known within the community, and better education and outreach might be necessary. The following are specific desired actions for this concern:

- 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

## Air Monitoring Objectives – Draft

**Objective 1:** *Increase air quality awareness in the community by making air quality information readily accessible and easy to understand.*

**Discussion:** In Concern #1, the Steering Committee discussed the lack of air pollution awareness in their community, especially the adverse effects due to exposure to poor air quality. To address this objective, monitoring at schools and providing real-time air quality data will be a priority.

**Objective 2:** *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.*

**Discussion:** In Concern #2, the Steering Committee expressed concerns about the potential emission impacts from Highway 99 and general traffic emissions in the community. They expressed a need to better understand the impacts from traffic related pollution and to be able to use this information to support programs to reduce these emissions. To address this objective, monitoring for traffic related pollutants along the freeway and high traffic areas will be a priority.

**Objective 3:** *Determine the air quality at sensitive receptor locations and whether air quality changes by season and locations for these sensitive locations*

**Discussion:** In Concern #3, the committee discussed how it will be important to collect data that may help local health officials determine if there is a correlation between air pollution and rates of asthma and respiratory problems in the community. To address this objective, monitoring near sensitive groups such as where children are likely to be (parks, recreational centers, and schools), elderly facilities, and hospitals will be a priority. Continuous monitoring for criteria pollutants such as PM and ozone can provide air quality data to compare to federal and state health standards.

**Objective 4:** *Determine which source categories the emissions are coming from and whether the emissions from the sources contribute significantly to poor air quality in nearby areas*

**Discussion:** In Concern #4, the Steering Committee identified several priority areas of concern where business related emissions may be significant. There is a desire to understand the potential impact of business-related emissions to nearby areas. To address this objective, the District will monitor near clusters of stationary sources and measure concentrations of specific air toxics related to these sources. This monitoring will help determine which source categories are likely to pose the most significant health impact.