

SAMPLE: Air Pollution & Social Justice Report

Unit:: The Atmosphere

APES: Wadors

SAMPLE: Air Pollution & Social Justice Report

LO 1	<i>to identify & describe the natural and anthropogenic sources and effects of the six “criteria pollutants”, explain the EPA’s NAAQS, and propose appropriate solutions to reduce these pollutants at their source(s)</i>
LO 2	<i>to investigate the relationship between socio-economic status and air pollution using an environmental justice lens and propose solutions to address inequities</i>

California Air Resource Board (CARB) Community Air Protection Program

In response to Assembly Bill 617 in 2017, CARB established the [Community Air Protection Program](#). The goal of the program is to reduce exposure in 15 communities more impacted by air pollution and develop new strategies to reduce health impacts. The legislature provides resources to address air pollution through the deployment of new technologies, increases transparency and availability of reports and supports community participation. This new effort provides an opportunity to continue to enhance our air quality planning efforts and better integrate community, regional and State level programs.

Your Task

You will be [assigned](#) a census tract in 1 of the 15 communities identified by CARB’s Community Air Protection Program and develop a report that connects demographic and air pollution data. You will be using this information to create a PSA that promotes a solution for air pollution risks specific to the community.

Instructions

1. Make a copy of the [Report Template](#).
2. Check Schoology for your census tract assignment.
3. Use the linked resources below, the [Census Tract Information and Resources](#) spreadsheet, Tasks from class, and the internet to complete research and complete the report.

Submission

Hard copy of report is due to your teacher by FRIDAY MARCH 1st.

Report Requirements

1. Census Tract Information (LO 4.4)

- a. Map View
 - i. insert [Google Maps/Earth](#) screenshot
- b. Background
 - i. gather relevant information about geography, climate, demographics, industry, history, or other details
- c. History of Discriminatory Policy
 - i. report information about redlining or other discriminatory policies ([Redlining California, 1936-1939](#), [Mapping Inequality](#), [How Government Redlining Maps Pushed Segregation in California Cities](#))

2. CalEnviroScreen Data (LO 4.4)

- a. [CalEnviroScreen 4.0](#) Results
 - i. export map with overall score
 - ii. explain/analyze significance of score
- b. [CalEnviroScreen Indicator](#) Pollution Burden related to air pollution
 - i. export map with score for air pollution indicator
 - ii. explain/analyze significance of indicator score
- c. [CalEnviroScreen Indicator](#) Population Health Characteristics
 - i. export map with score for one health indicator
 - ii. explain/analyze significance of indicator score
- d. [CalEnviroScreen Indicator](#) Population Demographic Characteristics
 - i. export map with score for one demographic indicator
 - ii. explain/analyze significance of indicator score

3. Air Pollutants (LO 4.5)

- a. Pollutant
 - i. identify an air pollutant impacting the census tract using [CalEnviroScreen Indicator](#) Pollution Burden (Ozone, PM_{2.5}, or Diesel Particulate Matter)
 - 1. report average concentrations (see [Census Tract Information & Resources](#))
 - 2. determine attainment using [EPA NAAQS](#)
 - 3. identify natural and anthropogenic sources specific to the community
 - 4. identify and describe human health impacts
 - ii. identify an air pollutant impacting the census tract not included in CalEnviroScreen Indicator (SO₂, NO_x, CO, Pb, VOCs, NH₃)
 - 1. report average concentrations (see [Census Tract Information & Resources](#))
 - 2. determine attainment using [EPA NAAQS](#)
 - 3. identify natural and anthropogenic sources specific to the community
 - 4. identify and describe human health impacts

4. Additional Local Information & Recommendations (LO 4.5)

- a. Examples of Current Community Engagement
 - i. *summarize information about research, news coverage, or local action/programs*
- b. Recommendation(s):
 - i. *recommend additional research and/or data collection needed to inform decision making in the community*

5. Solutions (LO 4.4 & 4.5)

- a. Strategy 1 (LO 5.4)
 - i. *identify primary category*
 - ii. *propose a strategy specific to the pollutant (ozone, PM_{2.5}, or diesel particulate matter) and relevant to the community*
- b. Strategy 2 (LO 4.4)
 - i. *identify primary category*
 - ii. *propose a strategy specific to the pollutant (SO₂, NO_x, CO, Pb, VOCs, NH₃) and relevant to the community*
- c. Plan for Community Involvement (LO 4.5)
 - i. *identify two ways to involve the community in implementation*

6. Public Service Announcement (LO 4.4 & 4.5)

- a. *insert image or QR code to digital content*
 - i. *make a PSA related to one of the solutions to promote the success of your strategy in the community in the format of video (news clip, social media post), audio (news clip, podcast), or visual (newspaper article, infographic, cartoon, advertisement, poster, slideshow) that includes:*
 - 1. *identify the air pollutant(s),*
 - 2. *explain the health impacts*
 - 3. *promote a solution strategy*

7. Sources

- a. *Cite all sources used in [MLA](#) format*