



TOPIC TALK

CalEnviroScreen in Action: New Updates and Strategies for Leveraging Data



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CalEnviroScreen 5.0 to Advance Brownfields Revitalization and Funding

Office of Environmental Health Hazard Assessment (OEHHHA)

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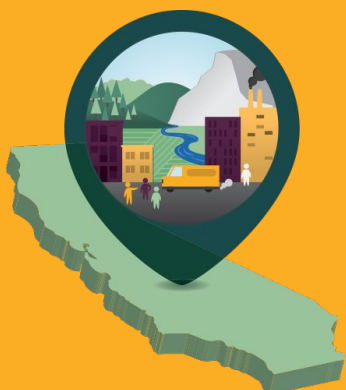




Agenda

- Overview of CalEnviroScreen (CES) 5.0 and recent updates
- Deep dive: indicators relevant to Brownfields revitalization
- Demo: CES in action
- Providing support: using CES to strengthen your Brownfields grant application





What is CalEnviroScreen?



CalEnviroScreen



**Environmental Justice
Mapping Tool**

**Geographic and
Data Focused**



**Used to Designate
Disadvantaged
Communities**



CalEnviroScreen 5.0

Indicators

Pollution Burden

Exposures



Ozone



PM 2.5



Drinking Water
Contaminants



Toxic Releases
from Facilities



Diesel Particulate
Matter



Children's Lead
Risk from Housing



Pesticide Use



Traffic

Environmental Effects



Solid Waste Sites
and Facilities



Impaired Waters



Groundwater
Threats



Hazardous Waste
Generators and Facilities



Cleanup Sites



Small Air
Toxics Sites

Population Characteristics

Sensitive Populations



Asthma



Low Birth Weight
Infants



Cardiovascular
Disease



Diabetes
Prevalence

Socioeconomic Factors



Educational
Attainment



Housing
Burden



Linguistic
Isolation



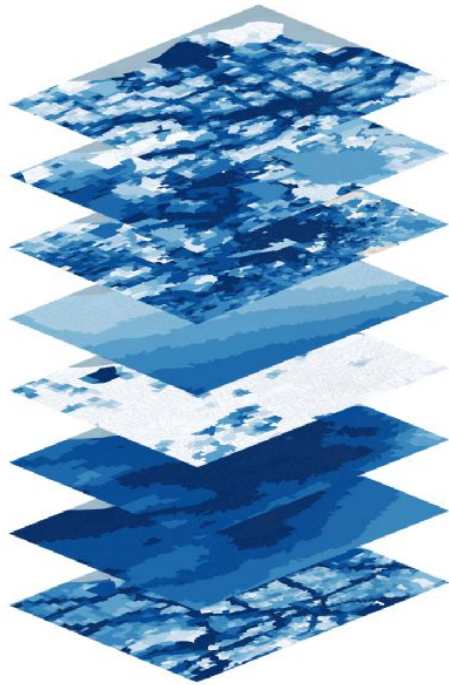
Poverty



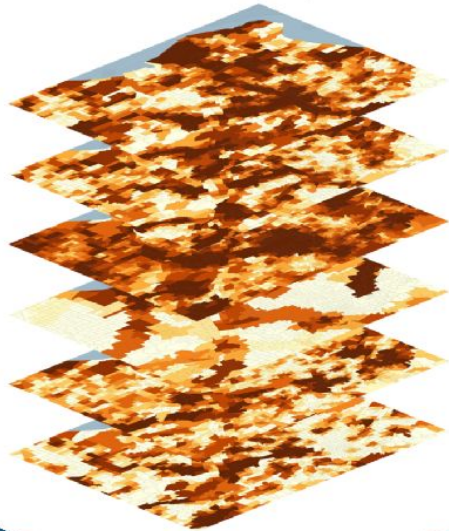
Unemployment

Pollution Burden

EXPOSURES



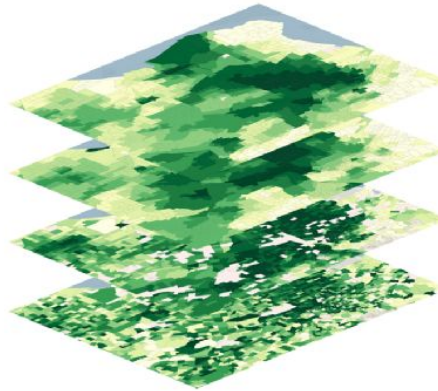
ENVIRONMENTAL
EFFECTS



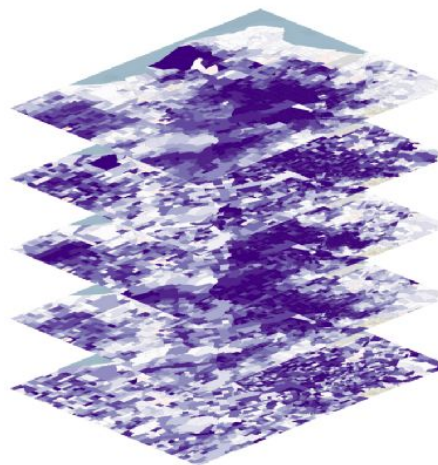
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Population Characteristics

SENSITIVE
POPULATIONS

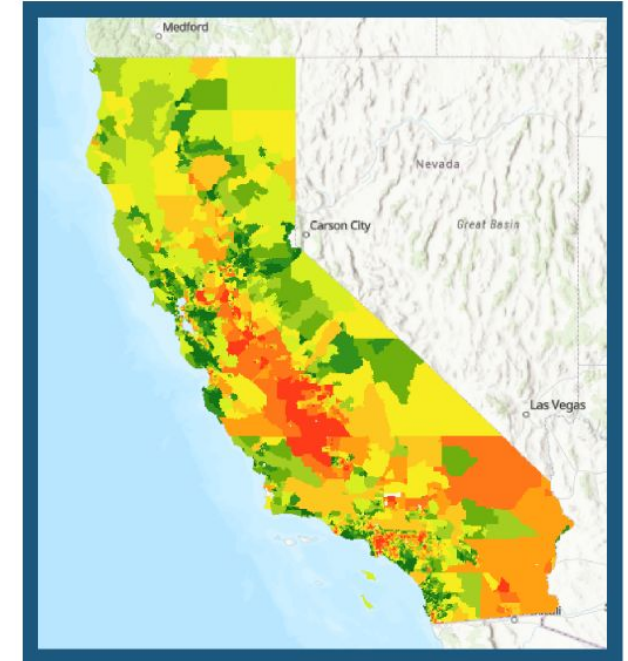


SOCIOECONOMIC
FACTORS



=

CalEnviroScreen Model



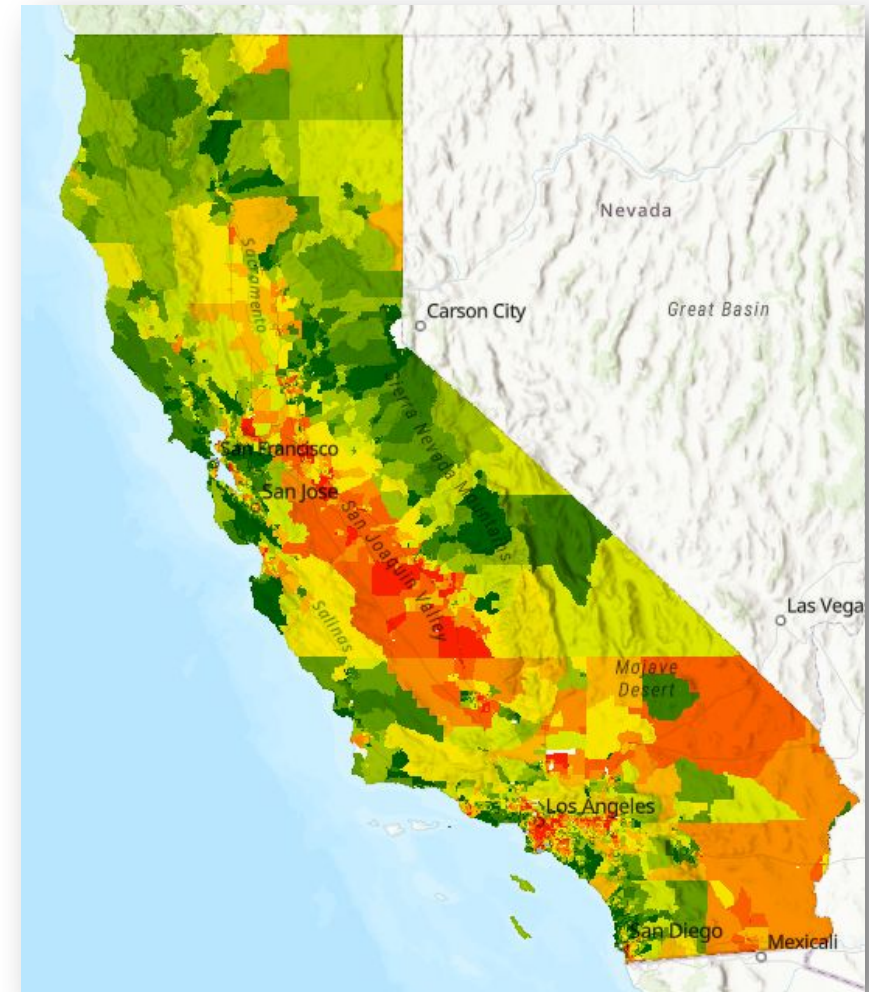
CalEnviroScreen Scoring

CalEnviroScreen 5.0 Results: Census Tract
6031000402

Indicator	Percentile
Overall Percentiles	
CalEnviroScreen 5.0	75.69
Pollution Burden	85.88
Population Characteristics	59.40



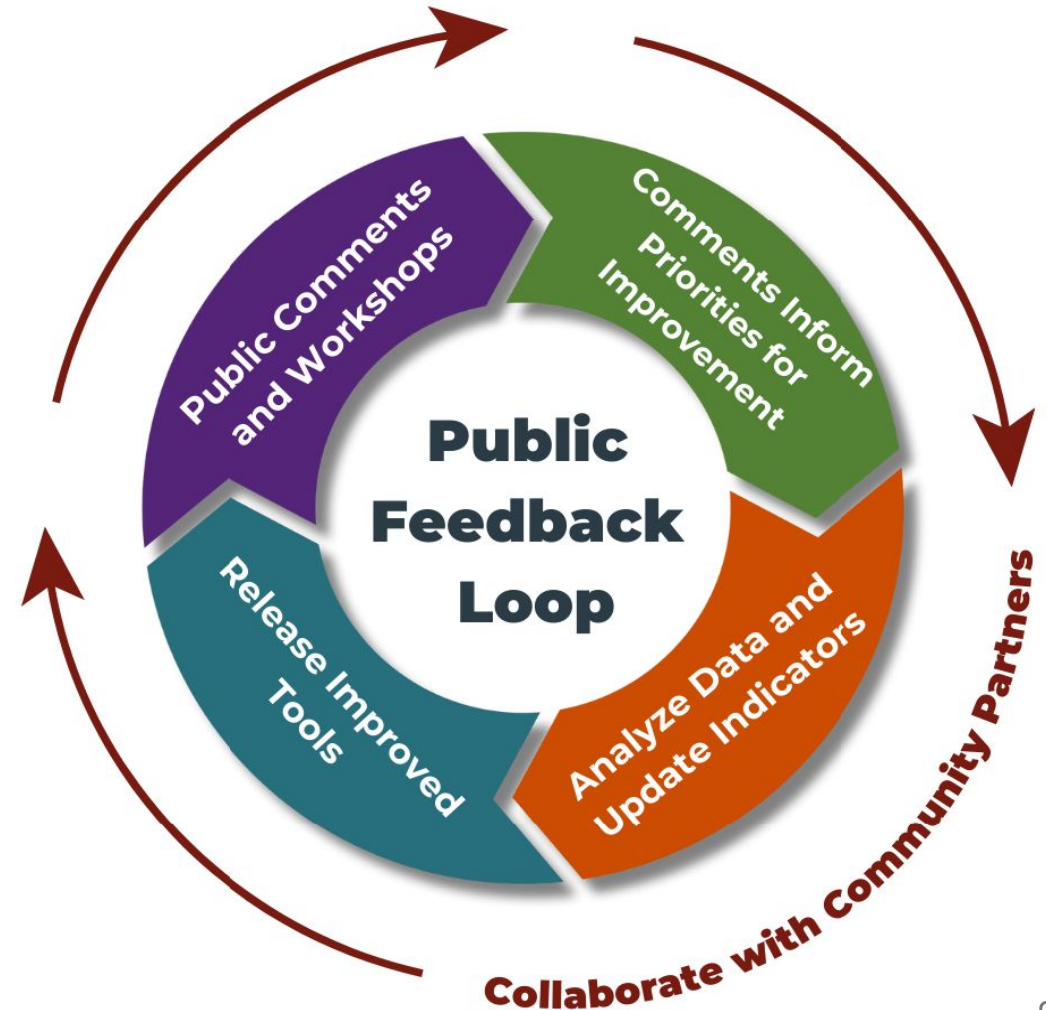
All ~9,100 census tracts in California fall somewhere on this line





Updating CalEnviroScreen

- Highly credible, science-based tool
- Credibility from proactive engagement with many stakeholders to refine and improve the tool over time
- Community-driven process integral to the 5.0 update





Indicators Relevant to Brownfields Revitalization



Small Air Toxics Sites



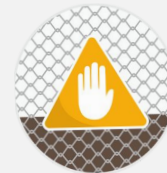
Children's Lead Risk from Housing



Solid Waste Sites and Facilities



Groundwater Threats



Cleanup Sites



Toxic Releases from Facilities



Hazardous Waste Generators and Facilities



CalEnviroScreen 5.0

The California Environmental Health Screening Tool

En Español

Draft SB 535 Disadvantaged Communities



▼

1221 Chess Drive, Foster City, CA 94404

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Search result

▼

Small Air Toxic Sites Results: Census Tract 6081608025

📄

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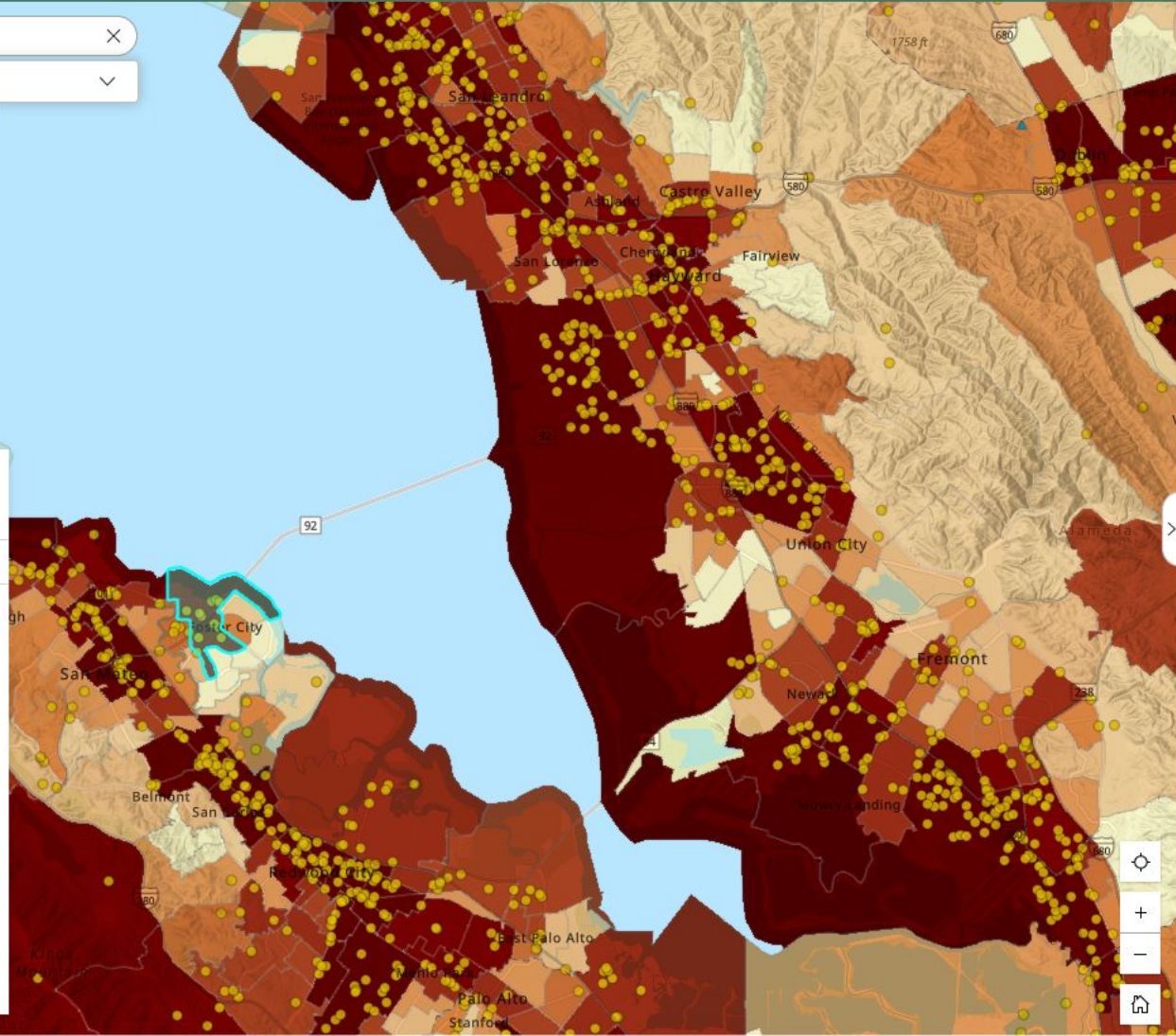
🔍 Zoom to

Census Tract 6081608025 has 6,212 people according to the 2024 American Community Survey, 5-year estimate.

This indicator reflects the combined presence of small air toxic sites located in or near this census tract. These sources include facilities such as gas stations, autobody shops, food processing plants, and active or idle oil and gas wells. Each site contributes a weighted score based on its proximity to populated census blocks, and these scores are summed to produce a tract-level value.

The percentile for this census tract is **75.88**, meaning the number and proximity of these sources is higher than **75.88%** of the census tracts in California.

Data represent emissions facilities reporting in 2024 and oil and gas wells data were downloaded May 2026.



Overall Results

Pollution Burden

Population Characteristics

Individual Indicator Viewer

Select an indicator from the dropdown menu below to display it on the map.
Only one indicator can be viewed at a time.

Legend

Pollution Burden Indicators

Small Air Toxic Sites

Oil and Gas Wells

Active

Idle

Emissions Facilities

Small Air Toxic Sites

Percentile

> 90 - 100

> 80 - 90

> 70 - 80

> 60 - 70

> 50 - 60

Select an Indicator

Data Descriptions

How-to guide

Data Download

Submit Feedback



CalEnviroScreen 5.0

The California Environmental Health Screening Tool

En Español

Draft SB 535 Disadvantaged Communities



1221 Chess Drive, Foster City, CA 94404

Search result

Hazardous Waste Generators and Facilities Results: Census Tract 6081608025

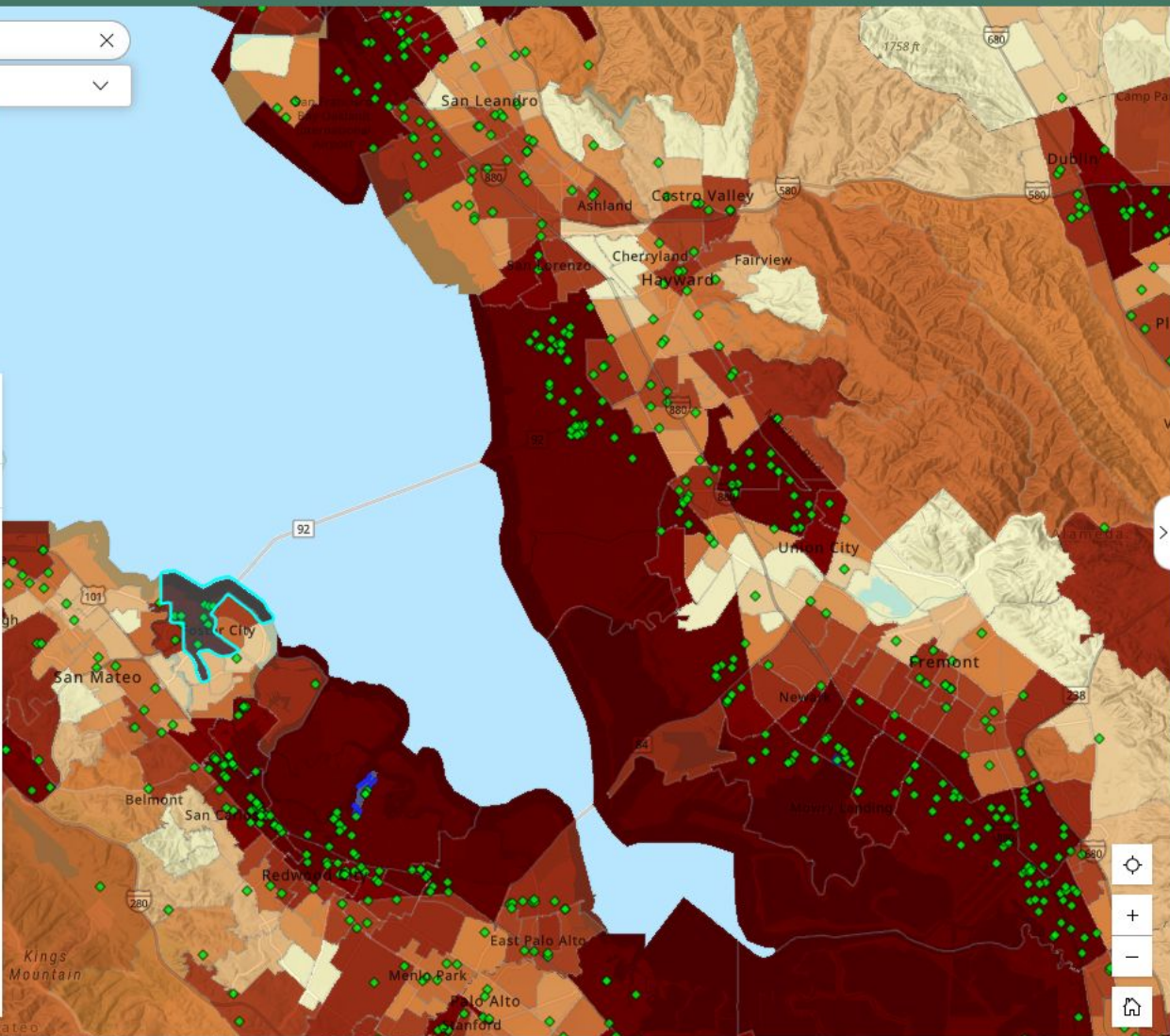
Zoom to

Census Tract 6081608025 has 6,212 people according to the 2024 American Community Survey, 5-year estimate.

This indicator reflects the combined burden of hazardous waste generators and permitted treatment, storage, and disposal facilities located in or near this census tract. Each site contributes a weighted score based on factors such as facility type, permit status, compliance history, and/or volume of waste generated, where available. These weights are adjusted by distance to populated census blocks and summed to produce the tract-level value.

The percentile for this census tract is **80.21**, meaning the number, type, and proximity of hazardous waste sites is higher than **80.21%** of the census tracts in California.

Permitted hazardous waste facilities data were received March 2026, hazardous waste data are from 2023-2025, and chrome plating facilities data were received April 2026.



Overall Results Pollution Burden Population Characteristics

Individual Indicator Viewer

Select an indicator from the dropdown menu below to display it on the map.
Only one indicator can be viewed at a time.

Legend

Pollution Burden Indicators

Hazardous Waste Generators and Facilities

Hazardous Waste Generators

Hazardous Waste Facilities

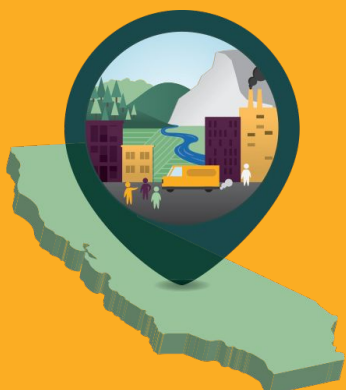
Hazardous Waste Generators and Facilities

Percentile

- > 90 - 100
- > 80 - 90
- > 70 - 80
- > 60 - 70
- > 50 - 60

Select an Indicator

- Data Descriptions
- How-to guide
- Data Download
- Submit Feedback



Demo!





Demonstrating Community Need

Demonstrating community need

2a. The Community's Need for Funding (5 points)

2b. Health or Welfare of Sensitive Populations (5 points)

2c. Greater than Normal Incidence of Disease and Adverse Health Conditions (5 points)

2d. Economically Impoverished/Disproportionately Impacted Populations (5 points)

Population Characteristics

Sensitive

Socioeconomic

Populations



Asthma



Low Birth
Weight
Infants



Cardiovascular
Disease



Diabetes
Prevalence

Factors



Educational
Attainment



Housing
Burden



Linguistic
Isolation



Poverty



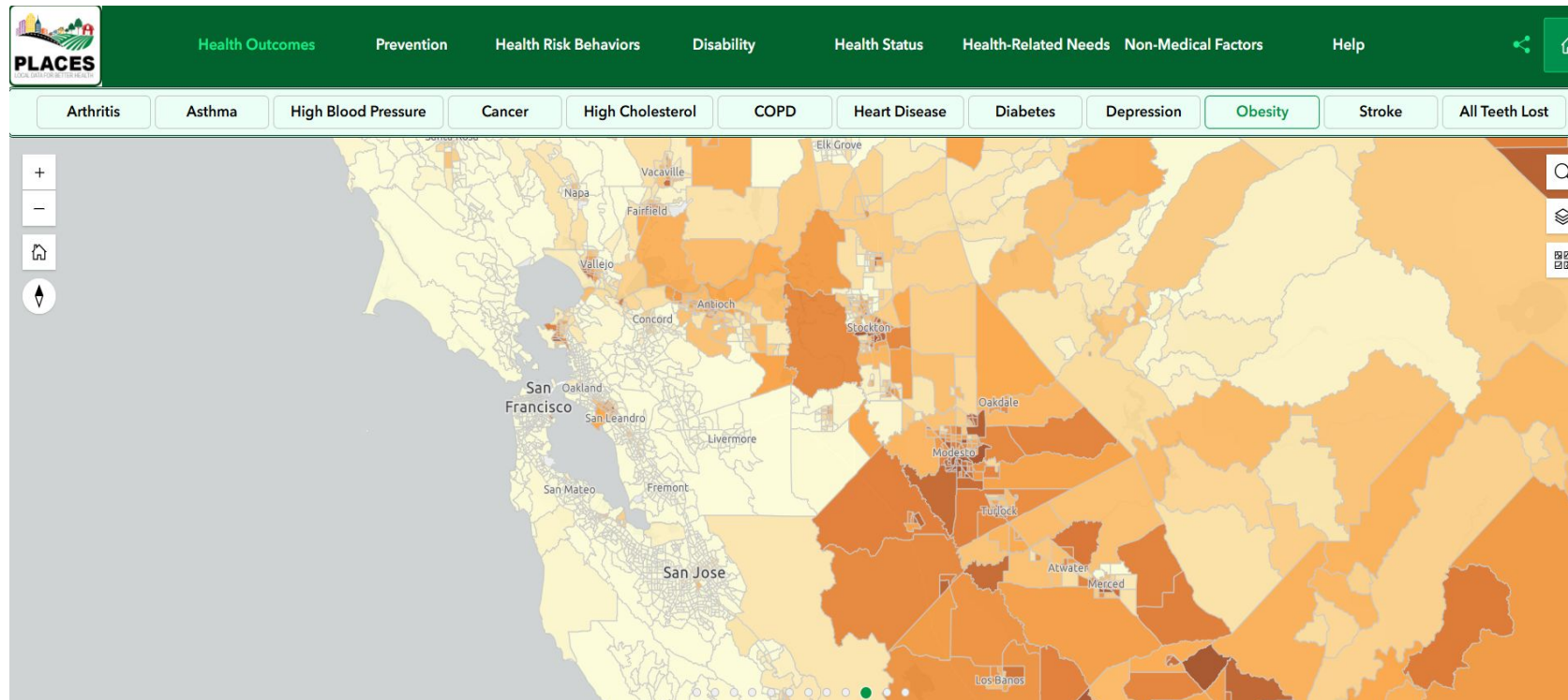
Unemployment



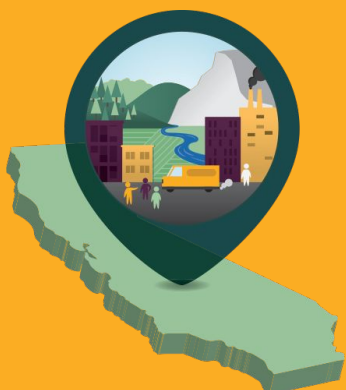
Demonstrating Community Need

Additional health data: CDC PLACES (2023)

<https://www.cdc.gov/places/index.html>



- Latest data uses BRFSS 2023
- Tract-level estimates of 40 chronic diseases, 9 non-medical factors (including CES diabetes indicator)
- **Estimates are model-based, not exact**
- Multiple geographies (county, census tract, ZCTA)



Thanks for your time!

Questions?

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General inquiries about CES: CalEnviroScreen@oehha.ca.gov





CALIFORNIA LAND RECYCLING CONFERENCE

Imagine | Innovate | Implement
September 29 – October 1, 2026 | Foster City

THANK YOU!

**IMAGINE, INNOVATE, IMPLEMENT
THE FUTURE OF LAND RECYCLING**



We appreciate your feedback, follow this QR code
to submit an evaluation form on Whova.

Join the conversation, use **#CALRC2026** to share
your photos, insights and highlights!



OFFICE OF BROWNFIELDS
Department of Toxic Substances Control - Cleanup in Vulnerable Communities Initiative



**CENTER FOR CREATIVE
LAND RECYCLING**
RECLAIM. CONNECT. TRANSFORM.

Uses

CalEPA



Other State Government



Local Governments



Community Organizations

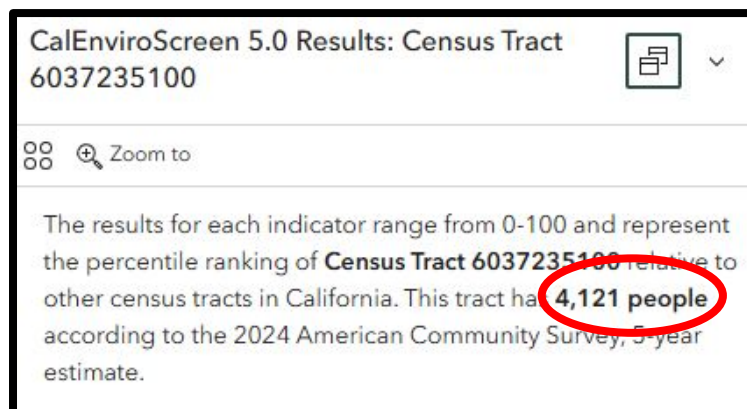




Demonstrating Community Need

2a. The Community's Need for Funding (5 points)

- Showing small population size + low income
 - Poverty indicator in CES
 - Population size in tract description



Population Characteristics

Sensitive

Populations



Asthma



Low Birth Weight Infants



Cardiovascular Disease



Diabetes Prevalence

Socioeconomic

Factors



Educational Attainment



Housing Burden



Linguistic Isolation



Poverty



Unemployment



Demonstrating Community Need

2c. Greater than Normal Incidence of Disease and Adverse Health Conditions (5 points)

- Sensitive population indicators (all are environment-related conditions)
 - Asthma
 - Cancer available in PLACES
- If percentile $>50^{\text{th}}$, the tract is above the median level for that indicator in California (i.e., “greater than normal”)

Population Characteristics

Sensitive

Populations



Asthma



Low Birth
Weight
Infants



Cardiovascular
Disease



Diabetes
Prevalence

Socioeconomic

Factors



Educational
Attainment



Housing
Burden



Linguistic
Isolation



Poverty



Unemployment



Demonstrating Community Need

2d. Economically Impoverished/Disproportionately Impacted Populations

- Socioeconomic Factors
 - Educational attainment
 - Housing burden
 - Linguistic isolation
 - Poverty
 - Unemployment

Population Characteristics

Sensitive

Populations



Asthma



Low Birth
Weight
Infants



Cardiovascular
Disease



Diabetes
Prevalence

Socioeconomic

Factors



Educational
Attainment



Housing
Burden



Linguistic
Isolation



Poverty



Unemployment



Example: Community Need

Census Tract 6037232500 is a small community of just **4,870** residents with limited capacity to fund environmental cleanup independently, reflected in its **90.38 percentile educational attainment** and **85.17 percentile poverty** ranking, leaving conventional financing largely inaccessible (2.a). Sensitive populations in the target area face severe health burdens, ranking in the **98.74 percentile for low-birth-weight infants**, **96.47 percentile for asthma**, and **87.20 percentile for diabetes**, and the proposed reuse will reduce exposure pathways contributing to these conditions (2.b). **All four disease indicators tracked for this tract exceed the 50th percentile statewide**, reflecting a greater-than-normal incidence of environmentally-caused disease, including asthma (96.47), cardiovascular disease (86.28), diabetes (87.20), and low-birth-weight infants (98.74), and this grant's assessment and remediation will help address the underlying hazardous exposures contributing to these conditions (2.c). The community is also economically impoverished and disproportionately impacted, with **housing burden (95.83 percentile)**, **poverty (85.17 percentile)**, **linguistic isolation (73.13 percentile)**, and **unemployment (69.75 percentile)** all ranking among the highest in the state, and the proposed reuse will convert a contaminated, underutilized site into a lasting community benefit for a population that has long shouldered these socioeconomic and environmental burdens (2.d).

