



San Diego County Air Pollution Control District

**Encina Wastewater Authority**

Public Meeting

August 8, 2023







# Encina Water Pollution Control Facility

- Regional provider of wastewater and recycled water
  - Cities of Carlsbad, Vista, Encinitas; Buena Sanitation, Vallecitos Water, and Leucadia Water Districts
  - 123 square mile service area; population 377k
- Average ~20 Million Gallons / Day
- Environmental Steward
  - Water Quality Protection
  - Biosolids => Fertilizer
  - Cogeneration Energy



# Background Air Toxics “Hot Spots” Program



# Background

## Air Toxics “Hot Spots” Program

### Health Risk Assessment

- As required by State law, Encina conducted a Health Risk Assessment based on emissions that occurred in 2017

### Approval

- State law requires the District and the Office of Environmental Health Hazard Assessment (OEHHA) to review and approve Health Risk Assessments conducted by facilities subject to the Hot Spots Program

### Requirements

- Based on the approved Health Risk Assessment, Encina was required to conduct public notification and submit a risk reduction plan to the District



# Elevated Health Risks Encina's 2017 Emissions

Health Risk	HRA Results	Risk Notification Thresholds	Risk Reduction Thresholds
Maximum Residential Cancer Risk	13.42 in one million	10 in one million	100 in one million (10 in one million for emissions in CY2018 and later)
Maximum Worker Acute Health Hazard Index	1.06 (was reduced below 1.0)	1.0	1.0





# Encina Wastewater Authority



- Wastewater Treatment Plant
- 6200 Avenida Encinas, Carlsbad



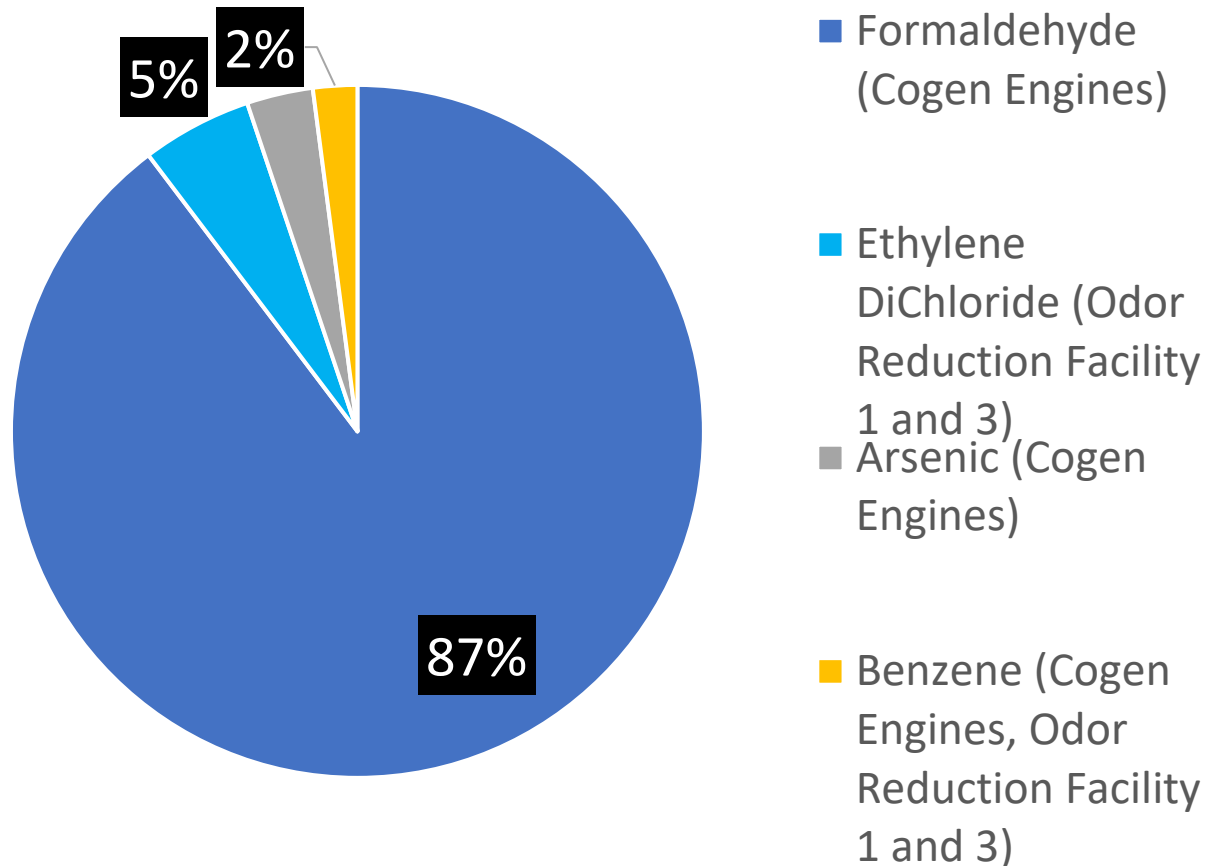
# Encina Equipment





# Emission Contributions

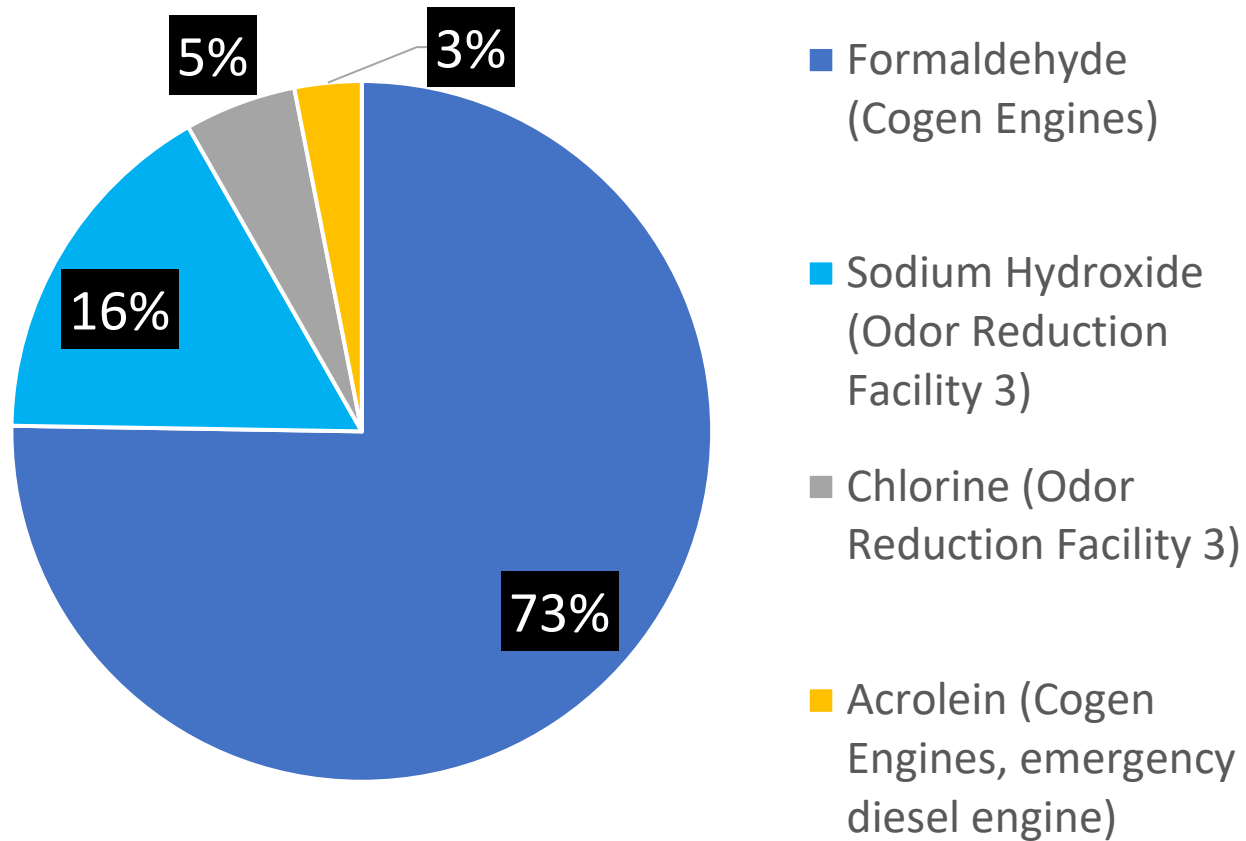
## Residential Cancer Risk 13.42 in One Million





# Emission Contributions

## Worker Acute Health Hazard Index 1.06



Sodium Hydroxide and Chlorine removed,  
Index now less than 1.0



# Worker Acute Health Hazard Index

- In 2017, Encina's Worker Acute Health Hazard Index was 1.06

- Their required risk reduction plan was to eliminate the use of sodium hydroxide and chlorine from Odor Reduction Facility 3

- With the removal of these compounds from Odor Reduction Facility 3, Encina's Worker Acute Health Hazard Index is now less than 1.0





# Next Steps



**Encina submitted another Health Risk Assessment based on their 2021 emissions, as required, on May 9, 2023**

**District and OEHHA will review the HRA and determine if further public notification and risk reduction will be required or not**

**Annual notifications will continue until the risks are below the notification thresholds**

**Encina will be re-evaluated every four years**



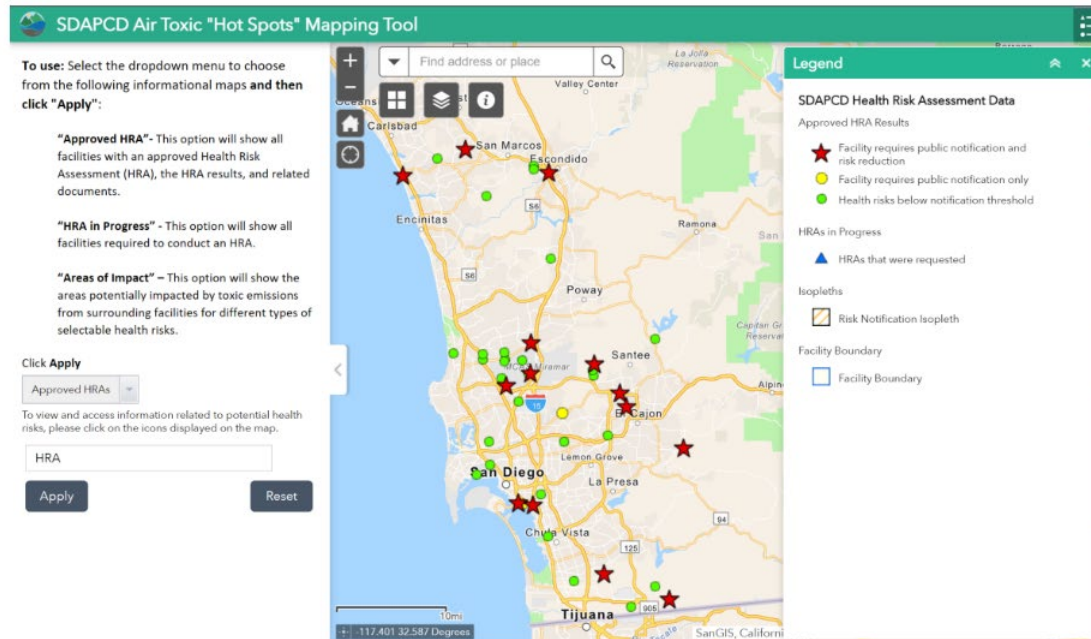
# Stay Informed

## Sign up for District Updates

- <https://bit.ly/SDAPCD-Updates>

## Visit District Hot Spots Page

- <https://sdapcd.org/hotspots>



## Procedures & Guidelines

### Public Documents for "Hot Spots" Facilities

The facilities listed below are subject to the notification requirements of the "Hot Spots" program. Select a facility to see documents related to this program. The most recent facility documents below are also available when viewing a facility record in the SDAPCD Air Toxics "Hot Spots" Mapping Tool presented above.

BAE Systems Ship Repair - San Diego - 92113 - 2017

Pacific Ship Repair - San Diego - 92113 - 2019

Vulcan Materials (Carrol Canyon) - San Diego - 92126 - 2017

Superior Ready Mix (Escondido Asphalt) - Escondido - 92024 - 2019

Encina Wastewater Authority - Carlsbad - 92011 - 2017

Minnesota Methane - San Diego - 92111 - 2018

Vulcan Materials (Otay) - San Diego - 92154 - 2019

Otay Landfill - Chula Vista - 91911 - 2017

