



**San Diego County Air Pollution Control District**

# **National Steel and Shipbuilding Co (NASSCO)**

**Public Meeting**

**January 28, 2026**



# Background Air Toxics “Hot Spots” Program



# Background

## Air Toxics “Hot Spots” Program

### Health Risk Assessment

- As per State law, NASSCO was required to conduct a Health Risk Assessment based on their 2021 emissions

### 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, NASSCO has reduced the cancer risk by almost 50% compared to the cancer risk calculated in their last Health Risk Assessment conducted for their 2017 emissions. However, NASSCO was required to conduct public notification and to submit a risk reduction plan for their 2021 emissions

### Risk Reduction Plan

- Risk reduction plan was submitted on time in 2025. NASSCO has begun implementation of some of the measures and SDAPCD is currently in final stages of reviewing and approving the plan.



# Elevated Health Risks NASSCO's 2021 Emissions

Health Risk		2021 HRA Results	Risk Notification Thresholds	Risk Reduction Thresholds
Maximum Residential Cancer Risk		28.4 in one million	10 in one million	10 in one million
Maximum Worker Cancer Risk		4.96 in one million		
Chronic Non-Cancer Health Hazard Index		Resident – 0.70 Worker – 1.07	1	1
Acute Non-Cancer Health Hazard Index		Resident – 1.19 Worker – 1.41	1	1







# NASSCO

- Shipyard
- 2798 East Harbor Drive, San Diego 92113





## NASSCO Equipment

Coating  
Operations

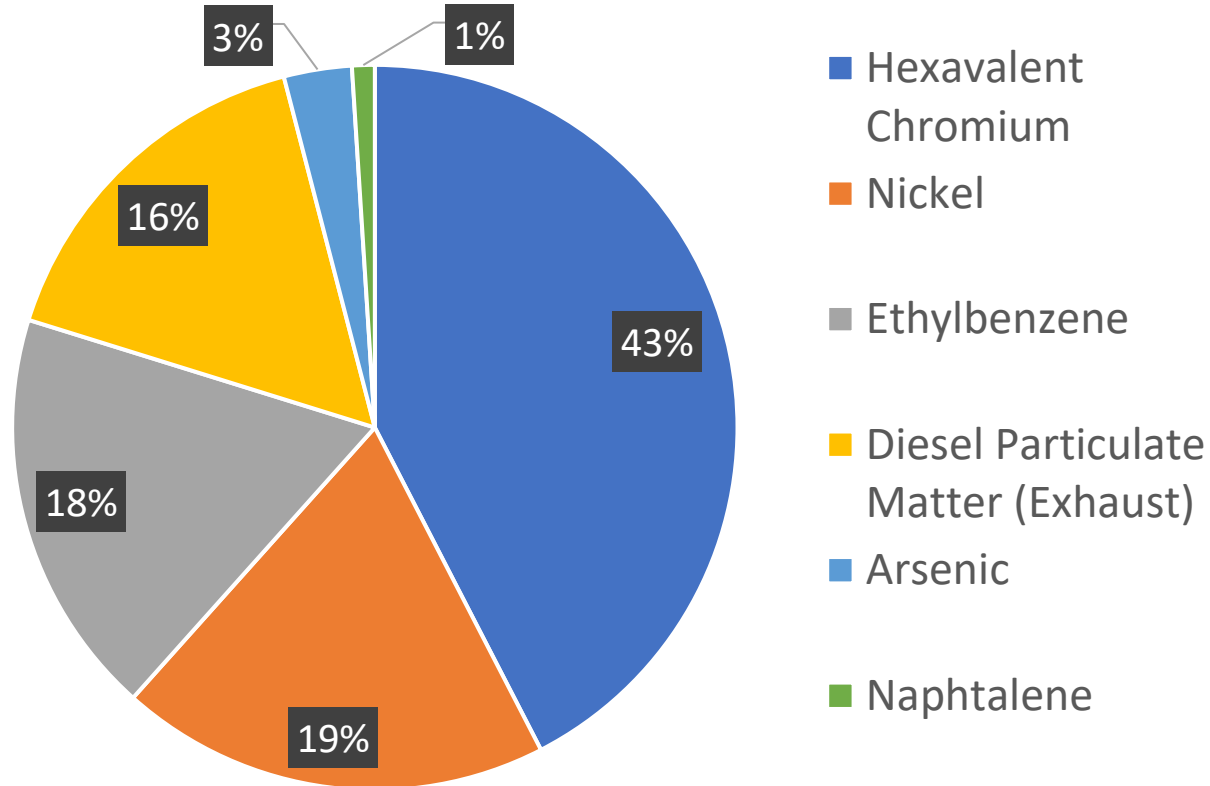
Abrasive  
Blasting

Welding

Diesel Engines

# Emission Contributions

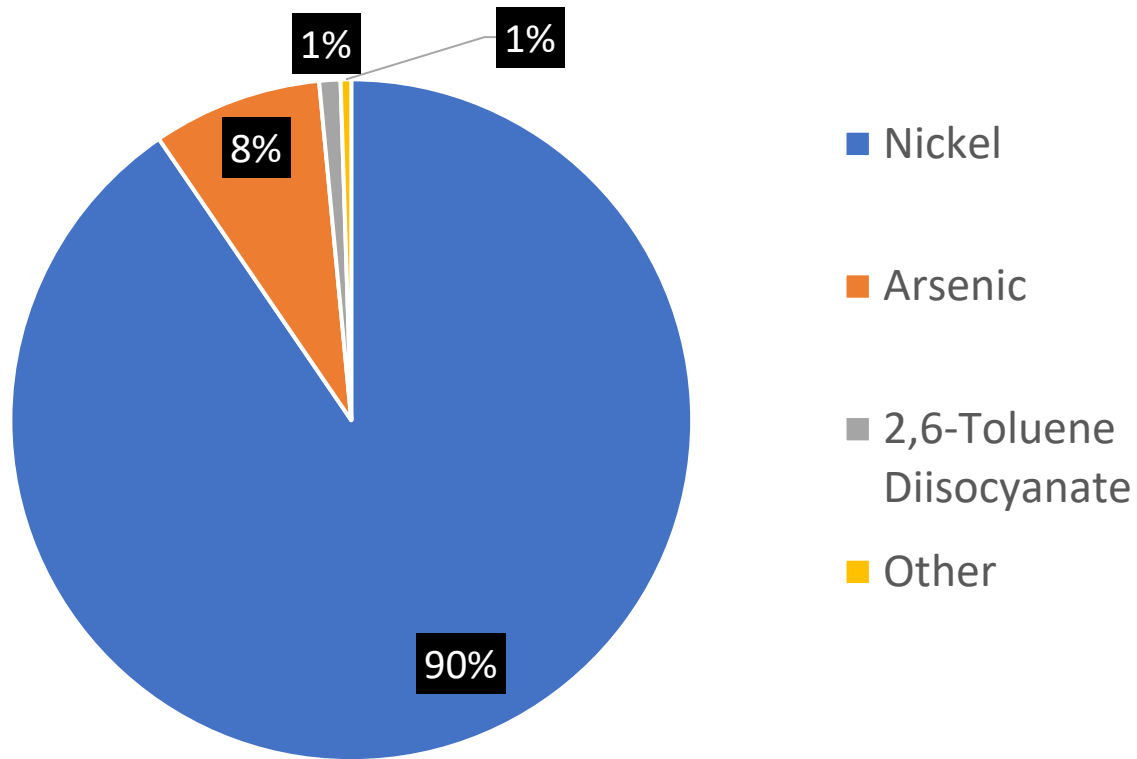
## Maximum Residential Cancer Risk 28.4 in One Million





# Emission Contributions

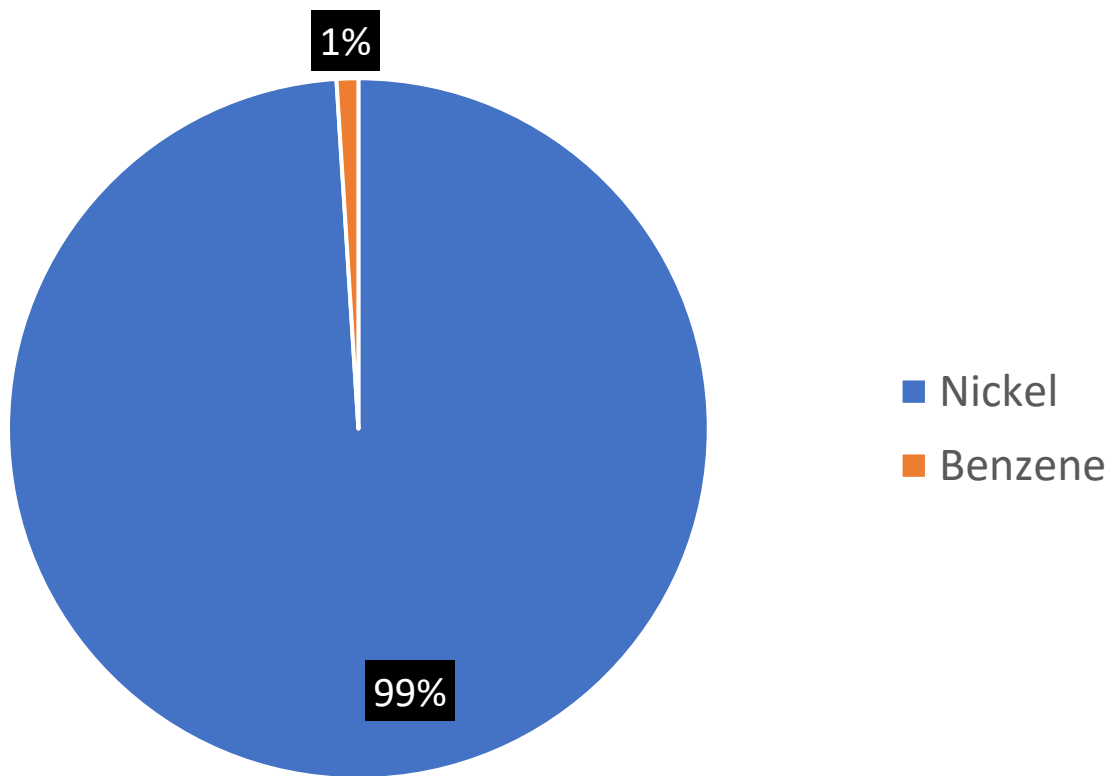
## Maximum Worker Chronic Non-Cancer 1.07





# Emission Contributions

## Maximum Acute Non-Cancer 1.41



# Risk Reduction Audit and Plan



NASSCO submitted a Risk Reduction Audit and Plan (RRAP) based on their 2021 HRA

SDAPCD is currently in the final stages of reviewing the plan, which will result in issuance of new and modified permits

The plan proposes risk reductions from multiple emission sources, and will reduce cancer risk, as well as chronic and acute health impacts



# Proposed Emissions Reductions

## Cancer Risk



### Fume Capture and Filtration at Welding School

- Install exhaust system with High Efficiency Particulate Air (HEPA) filters with control efficiency of 99.97% for welding operations conducted at the welding school



### Crane Engine Replacements

- Replace two large crane diesel engines with cleaner engines (Tier 4F)





# Proposed Emissions Reductions

## Chronic and Acute Health Hazard Index (HHI)



### Welding Material Selection

- Reduced nickel content of welding materials for the following:
  - Use of low-nickel welding material
  - A target of 50% use of lower-nickel content welding material relative to baseline levels.



# Proposed Risk Reduction Measures

Calculated Health Risks	Cancer	Chronic Health Hazard Index	Acute Health Hazard Index (Resident)	Acute Health Hazard Index (Worker)
Calculated Risks	28.44	1.07	1.19	1.41
Proposed Reductions	6.62	0.34	0.44	0.42
Proposed Risks	21.82	0.73	0.85	0.99



# Sources of Potential Remaining Heath Risk



Welding



Paint/Solvent Operations





# Proposed Risk Reduction Plan Timelines

## Welding Material Substitution

In Progress

Expected implementation in 2025

## Welding School Fume Hoods and Control

Initial Evaluation Completed / Applications for Permit to Construct Submitted

Expected Completion March of 2027

## First Tier 4F Repower of Crane 15 or 16 Engine

Initial Planning / Application for Permit to Replace Submitted

Expected Completion October of 2027

## Second Tier 4F Repower of Crane 15 or 16 Engine

Initial Planning / Application for Permit to Replace Submitted

Expected Completion December of 2028



# Extension Requirements (Rule 1210)



Installation of Best Available Retrofit Control Technology for Toxics (T-BARCT) on all emission units within the stationary source contributing to the elevated health risk.

- (i) has been achieved in practice or
- (ii) feasible emissions limitation or retrofit control technique feasible, while taking into consideration the cost of achieving health risk reductions, any non-air quality health and environmental impacts, and energy requirements.

## Public Notice and 30-day Comment Period

- The SDAPCD shall provide public notice of any extension request, make the extension request available for public review, and provide for a 30-day comment period.

## Public Meeting

- The SDAPCD shall conduct a public meeting to discuss the proposed extension and obtain input from the public



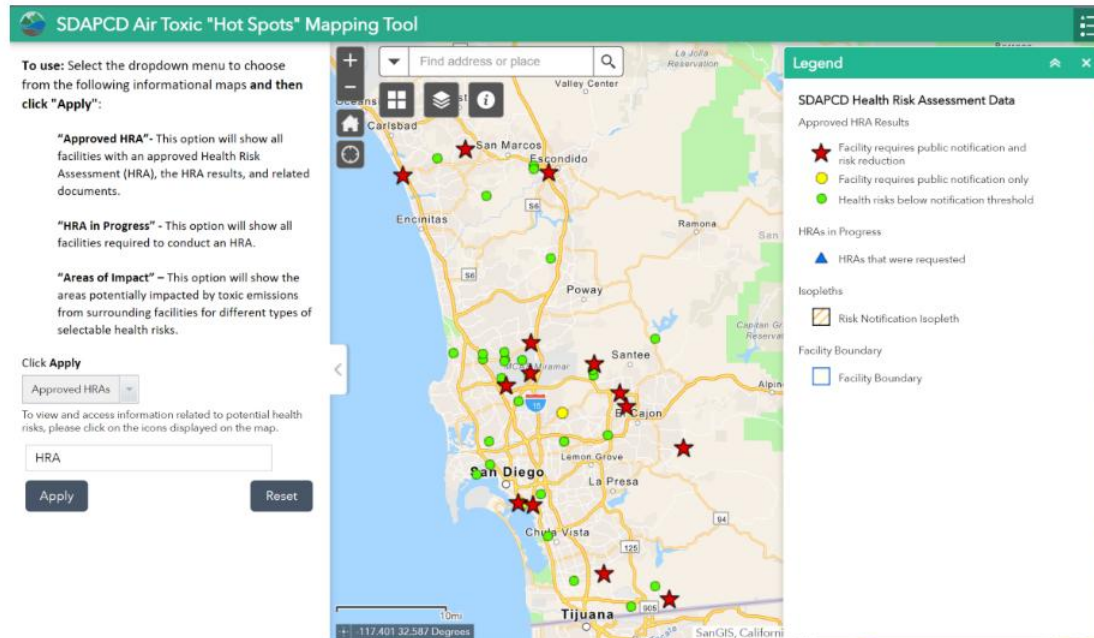
# Stay Informed

## Sign up for District Updates

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

## Visit District Hot Spots Page

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



## 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.

Encina Wastewater Authority - Carlsbad - 92011 - 2021

Martin Marietta San Diego Aggregates, LLC - Santee - 92071 - 2021

Lehigh Hanson Aggregates - San Diego - 92145 - 2017

Minnesota Methane - San Diego - 92111 - 2021

General Dynamics NASSCO - San Diego - 92113 - 2021

Otay Landfill - Chula Vista - 91911 - 2021

Vulcan Materials - San Diego - 92126 - 2021

Freeburg Industrial Fabrication Corp - Escondido - 92029 - 2021

Naval Base San Diego - San Diego - 92136 - 2021





# Questions?

## For More Information:

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