

San Diego County Air Pollution Control District (District)



San Diego County
**Air Pollution
Control District**

Pacific Ship Repair & Fabrication Public Meeting

April 26, 2022

Meeting Agenda



San Diego County
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SDAPCD

Purpose of this meeting

Air Toxics and the “Hot Spots” Program

Facility operation, emissions, and health risk for 2019 emissions

Next Steps (Risk Reduction Plan)

Public Comment

Receive public comments

Answer questions

SDAPCD staff and Pacific Ship staff

California Air Toxics “Hot Spots” Program (Assembly Bill 2588)



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Program Goal

- Protects the public’s right to know about toxic air contaminant emissions and how these emissions can potentially impact public health; and,
- Requires health risk reductions for facilities with elevated health risks

Toxic Air Contaminants

- Chemicals emitted into the atmosphere that may cause adverse health effects

Adverse Health Effect

- Range from minor eye or throat irritation, shortness of breath, or headaches, to cancer, birth defects, or damage to organs

California Air Toxics “Hot Spots” Program



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**Quantify Toxic
Air Contaminant
Emissions**

**Identify Facilities
that may Present
Public Health
Concerns**

**Request Health
Risk
Assessments –
Review and
Approve**

**Implement
Public
Notification and
Risk Reduction
Requirements**

Air Toxics “Hot Spots” Program Health Risks



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Cancer Risk

Calculates the probability that a person would contract cancer if exposed to emissions for 30 years

Health Hazard Index

Calculated for acute exposure (or short-term health impacts) and chronic exposure (or long-term health impacts)

Index < 1 → no adverse health effects

Index ≥ 1 → potential for adverse health effects

Cancer Burden

Estimates of the number of people that can contract cancer within a community that is exposed to the emission levels

Public Notification and Risk Reduction Thresholds

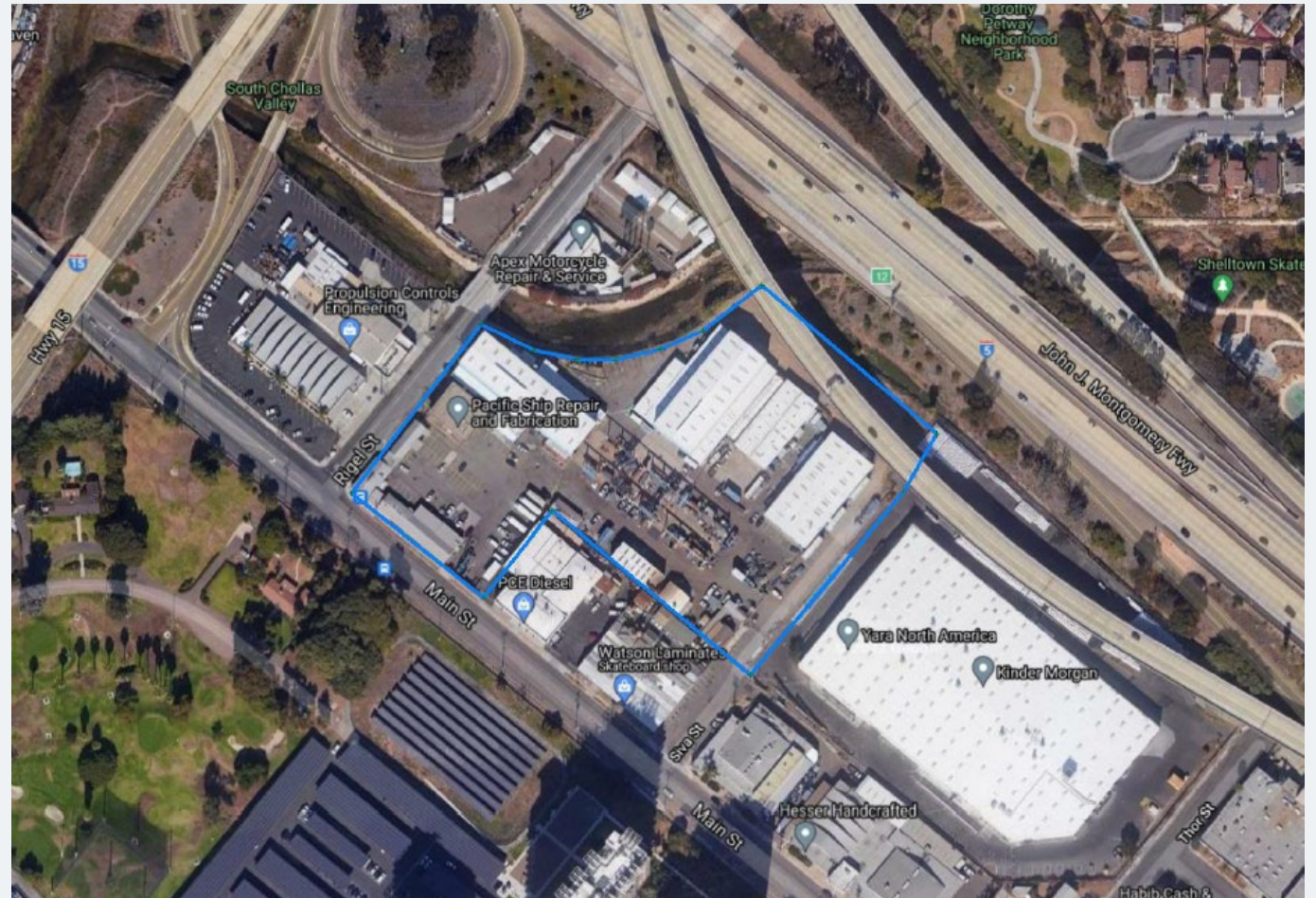


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Health Risk	Public Notification Threshold	Risk Reduction Threshold
Cancer Risk	10 in one million	10 in one million (100 in one million for emissions prior to CY 2018)
Acute Noncancer Health Hazard Index	1.0	1.0
Chronic Noncancer Health Hazard Index	1.0	1.0
Cancer Burden	1.0	1.0

Pacific Ship Equipment

- Ship component repair and fabrication facility
 - Abrasive blasting
 - Marine coating
 - Solvent cleaning
 - Welding



Elevated Health Risks Pacific Ship 2019 Emissions

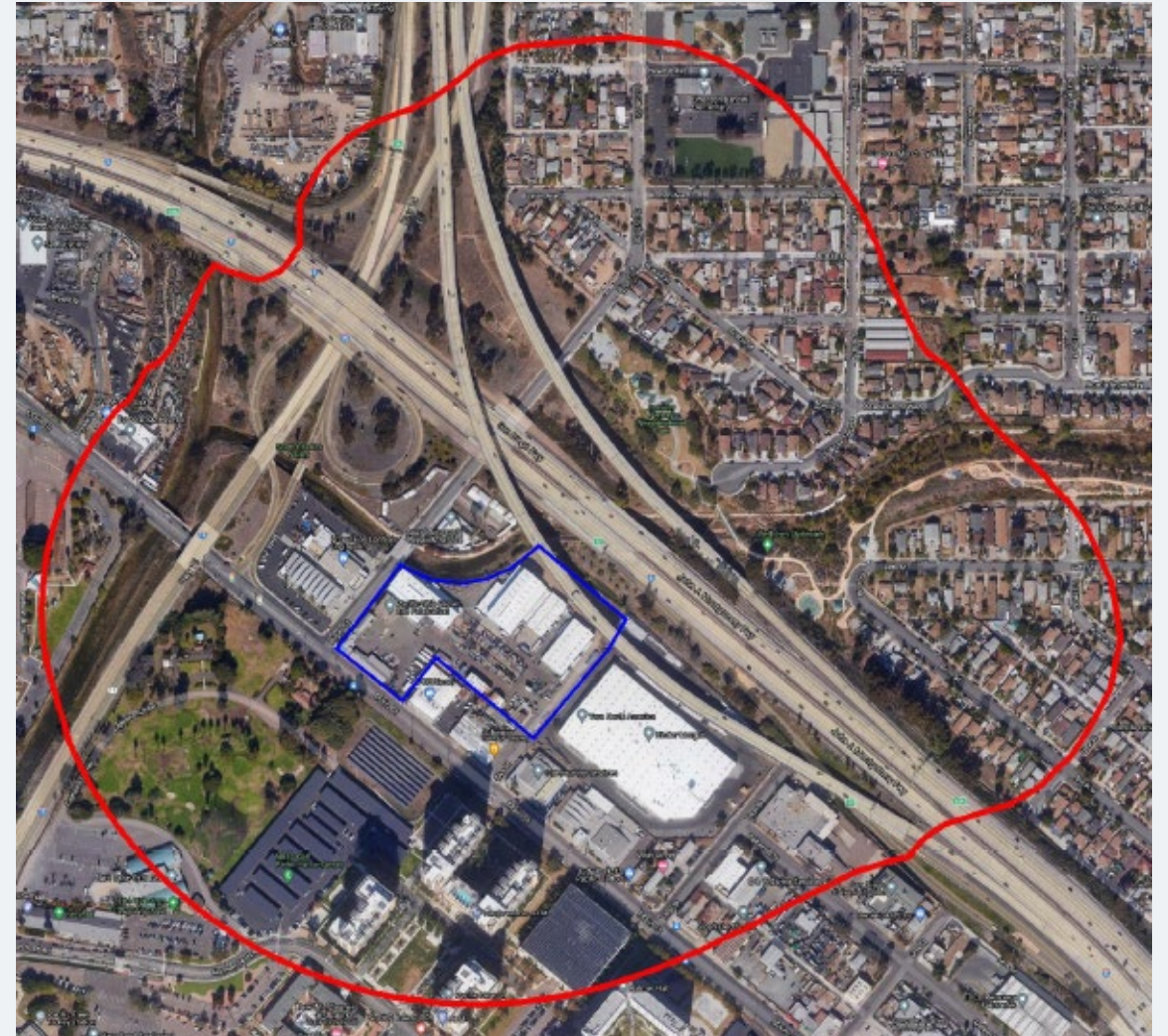
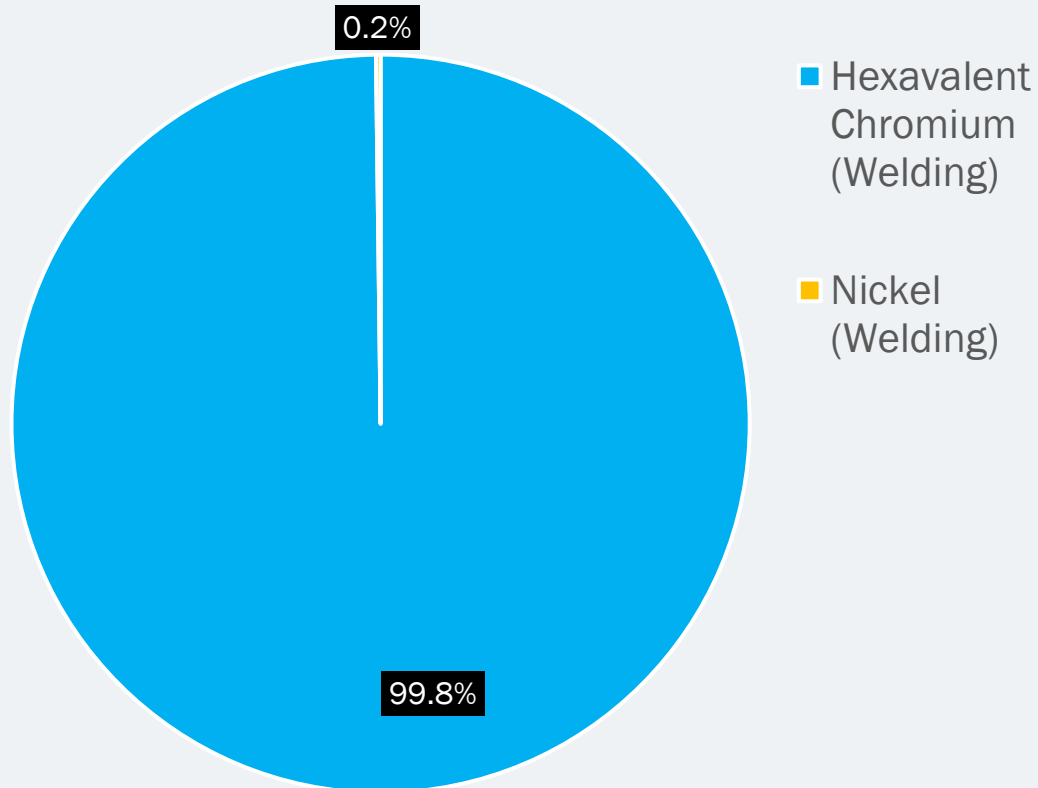


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Health Risk	HRA Results	Risk Notification Thresholds	Risk Reduction Thresholds
Maximum Residential Cancer Risk	48.2 in one million	10.0 in one million	10.0 in one million
Maximum Worker Cancer Risk	121.5 in one million	10.0 in one million	10.0 in one million
Maximum Worker Acute Health Hazard Index	3.0	1.0	1.0

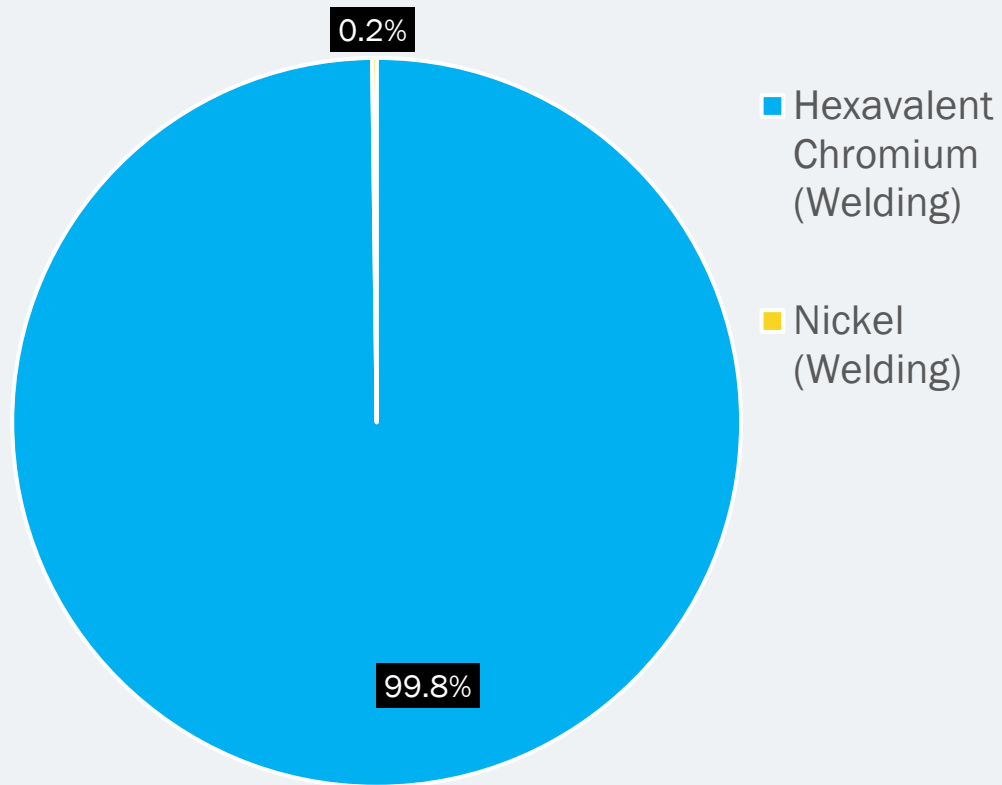


Emission Contributions Residential Cancer Risk of 48.2 in one million



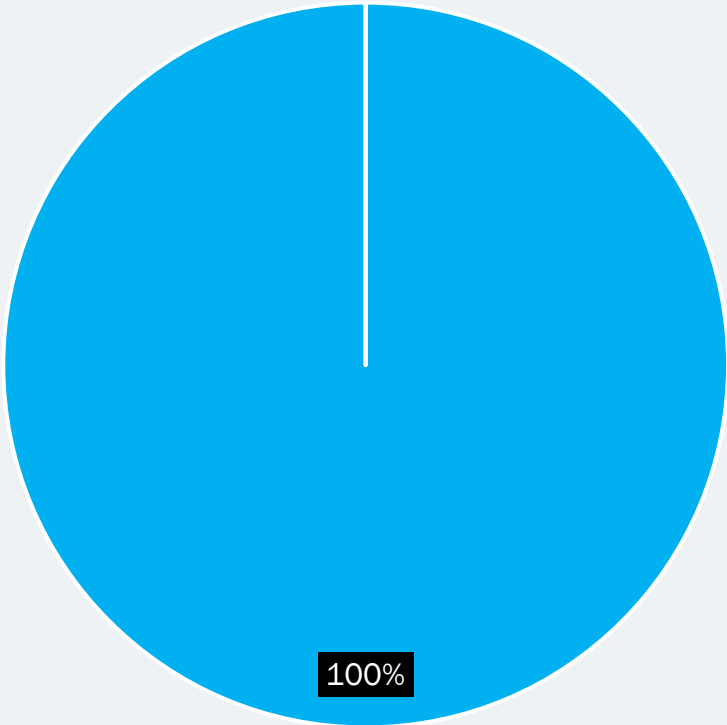


Emission Contributions Worker Cancer Risk of 121.5 in one million





Emission Contributions Worker Acute Non-Cancer Health Hazard Index of 3.0



■ Nickel
(Welding)



Calculated Health Risks



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Health Risks are Determined Based on where a Person may be exposed

- Residence
- Workplace
- School, Public Park, Library, etc.

Health Risks are also Calculated at the Point of Maximum Impact (PMI)

- Location with the highest risk, that is not a residence, workplace, school, public park, library, etc. For example, in the middle of the ocean or river
- Not used to determine public notification or risk reduction requirements



Point of Maximum Impact





Next Steps

Pacific Ship Repair & Fabrication submit a risk reduction Plan

Sign up for District Updates to receive notices at
<https://public.govdelivery.com/accounts/CASDCAPCD/subscriber/new>

Consider public comments

District to Review and approve risk reduction plan