2019 & 2020 Air Toxic “Hot Spots” Report

May 2021
California Air Toxics “Hot Spots” Program (Assembly Bill 2588)

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
Sources of Toxic Air Contaminants

- Stationary Sources
- Mobile Sources
- Area Sources
California Air Toxics “Hot Spots” Program

Quantify Toxic Air Contaminant Emissions
Identify Facilities that may Present Public Health Concerns
Request Health Risk Assessments
Implement Public Notification and Risk Reduction Requirements
## Air Toxics “Hot Spots” Program Health Risks

<table>
<thead>
<tr>
<th>Health Hazard Index</th>
<th>Cancer Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Calculates the probability that a person would contract cancer if exposed to emissions for 30 years</td>
</tr>
<tr>
<td>Acute exposure</td>
<td>Calculated for acute exposure (or short-term health impacts) and chronic exposure (or long-term health impacts)</td>
</tr>
<tr>
<td>Index &lt; 1</td>
<td>no adverse health effects</td>
</tr>
<tr>
<td>Index ≥ 1</td>
<td>potential for adverse health effects</td>
</tr>
</tbody>
</table>

**Cancer Burden**

Estimates of the number of people that can contract cancer within a community that is exposed to the emission levels
### Existing Public Notification and Risk Reduction Thresholds

<table>
<thead>
<tr>
<th>Health Risk</th>
<th>Public Notification Threshold</th>
<th>Risk Reduction Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer Risk</td>
<td>10 in one million</td>
<td>100 in one million</td>
</tr>
<tr>
<td>Acute Noncancer Health Hazard Index</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Chronic Noncancer Health Hazard Index</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Cancer Burden</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Air Toxic “Hot Spots”
Key Program Activities (2019 & 2020)

<table>
<thead>
<tr>
<th>Public Notification Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Risk Assessment Approved</td>
<td>9</td>
</tr>
<tr>
<td>Facilities Notified to Complete Public Notification</td>
<td>6</td>
</tr>
<tr>
<td>Public Notification Completed</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Risk Reduction Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Risk Assessment Approved</td>
<td>9</td>
</tr>
<tr>
<td>Facilities Notified to Complete Risk Reduction</td>
<td>3</td>
</tr>
<tr>
<td>No. of Risk Reduction Plans Submitted</td>
<td>1</td>
</tr>
</tbody>
</table>
Air Toxic “Hot Spots”
Key Program Activities (2019 & 2020)

- Emission Inventories Approved: ~2,600
- Health Risk Assessments Requested: ~50
Air Toxic “Hot Spots” Process Overview

1 year

180 Days

District Requests Health Risk Assessments

Facilities Submit Health Risk Assessments

District Submits Health Risk Assessments to OEHHA

OEHHA Completes the Review of Health Risk Assessment

District Approves Health Risk Assessment

District Implements Public Notification and Risk Reduction Requirements
Stakeholder Engagement

On April 1, 2021, a draft of the 2019 and 2020 Air Toxics “Hot Spots” Program Report was released in English and Spanish.

A virtual public meeting was scheduled for April 22, 2021.

District reached out to multiple organizations, community partners, regulated community, and members of the public.

On April 22, 2021, the District held a virtual public meeting.

Spanish interpretation services were provided during the meeting.

The meeting is available on the District’s YouTube Channel.
<table>
<thead>
<tr>
<th><strong>Report New Format</strong></th>
<th>Report has a new format when compared to previous reports</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Request for Additional Information</strong></td>
<td>Include: (1) progress in reducing overall toxic emissions from all sources and (2) enhanced methodology to calculate health risks</td>
</tr>
<tr>
<td><strong>Report Review Timeline</strong></td>
<td>Concerns based on the assumption that comments had to be provided in two business days</td>
</tr>
</tbody>
</table>
Ongoing Efforts to Reduce Health Risks

- Amendments to the Emission Inventory Report for the Air Toxics “Hot Spots” Program
- Reduce exposure to air pollutants in communities based on environmental, health and socioeconomic data
- Evaluate Rule 1210 to better protect public health
  - Rule1200-new/expanding operations
- Evaluating health risks from welding operations to determine if these operations need to be permitted
- MOU with the California Air Resources Board to enforce diesel on-road and off-road vehicles regulations
- The District administers grant programs to clean up and/or replace diesel powered vehicles and other equipment

- Emission Inventory Report
- Community Air Protection Program
- Air Toxic Rules
- MOU
- Mobile Sources
- Incentives
Today’s Recommendations

Staff Recommendation

• Authorize the Air Pollution Control Officer to Distribute the 2019 and 2020 Air Toxics “Hot Spots” Program Report for San Diego County