Meeting Agenda

SDAPCD

Purpose of this meeting
Air Toxics and the “Hot Spots” Program
Facility operation, emissions, and health risk for 2017 emissions
Next Steps (Risk Reduction Plan)

Public Comment

Receive public comments
Answer questions
SDAPCD staff and Vulcan staff
Vulcan Materials Company

• Vulcan produces its products safely and with concern for public health, the environment, and pollution prevention.

• Vulcan provides our employees and the communities which we work in with a healthy and safe environment.

• Vulcan engages in the process of continuous improvement by periodically setting health, safety, and environmental targets and objectives and by constantly reviewing progress and achievement.

• Contact:
  Barbara Goodrich-Welk
  Manager, Government & Community Affairs
  858-530-9444
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
California Air Toxics “Hot Spots” Program

- 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

## 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

<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>10 in one million</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(100 in one million for emissions prior to CY 2018)</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>
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</tbody>
</table>
Vulcan Materials Western Division

- Vulcan Materials
- Mineral Industry Facility
- 10051 Black Mountain Road, San Diego
Vulcan Equipment

Haul Roads
Storage Piles
Aggregate Plant
Storage Piles
Haul Roads
Cemex Plant (not Vulcan)
Asphalt Batch Plant
Storage Piles
Recycle Asphalt
Cement Treated Base Plant
<table>
<thead>
<tr>
<th>Health Risk</th>
<th>HRA Results</th>
<th>Risk Notification Thresholds</th>
<th>Risk Reduction Thresholds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Worker Chronic Health Hazard Index</td>
<td>1.20</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Maximum Worker Acute Health Hazard Index</td>
<td>2.63</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Emission Contributions Worker Chronic Non-Cancer Health Hazard Index of 1.20

- Arsenic (Aggregate Plant, Haul Roads, Storage Piles)
- Silica (Aggregate Plant, Haul Roads, Storage Piles)
Emission Contributions Worker Acute Non-Cancer Health Hazard Index of 2.63

- Nickel (Aggregate Plant, Haul Roads, Storage Piles)
Calculated Health Risks

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

Vulcan Materials Western Division to submit a risk reduction Plan (due August 21, 2022)

Sign up for District Updates to receive notices at https://bit.ly/3JTGsre

Consider public comments

District to Review and approve risk reduction plan