



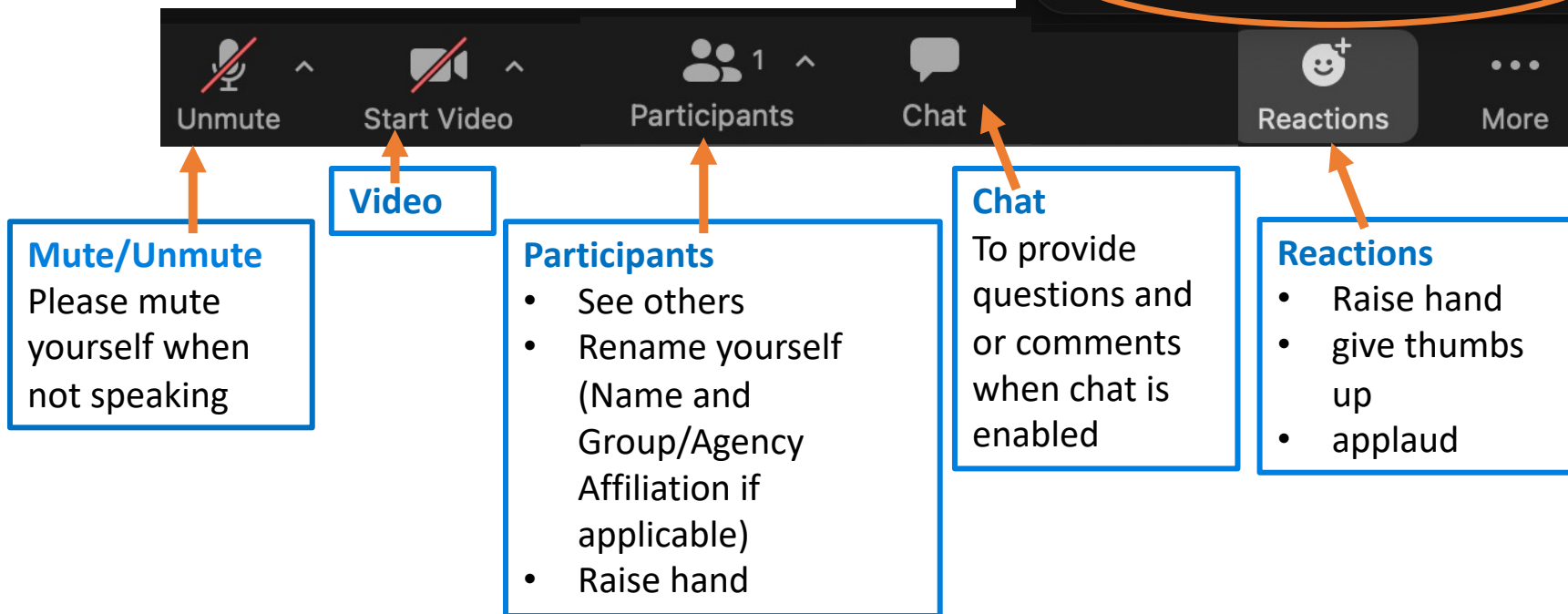
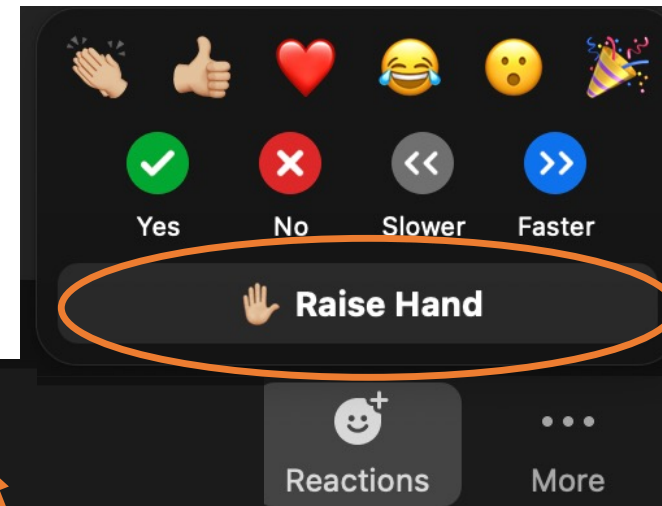
BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Public Workshop on CEMEX, Hanson Aggregates and other Bayview Point Facilities

Thank you for joining us. The workshop will begin at 6:00 pm.

Until then, please familiarize yourself with the following Zoom features:

How to Use Video Conferencing



Note: The Air District will be recording this public workshop

If you need technical assistance at any time during this workshop, please call or text **(415) 604-1405**




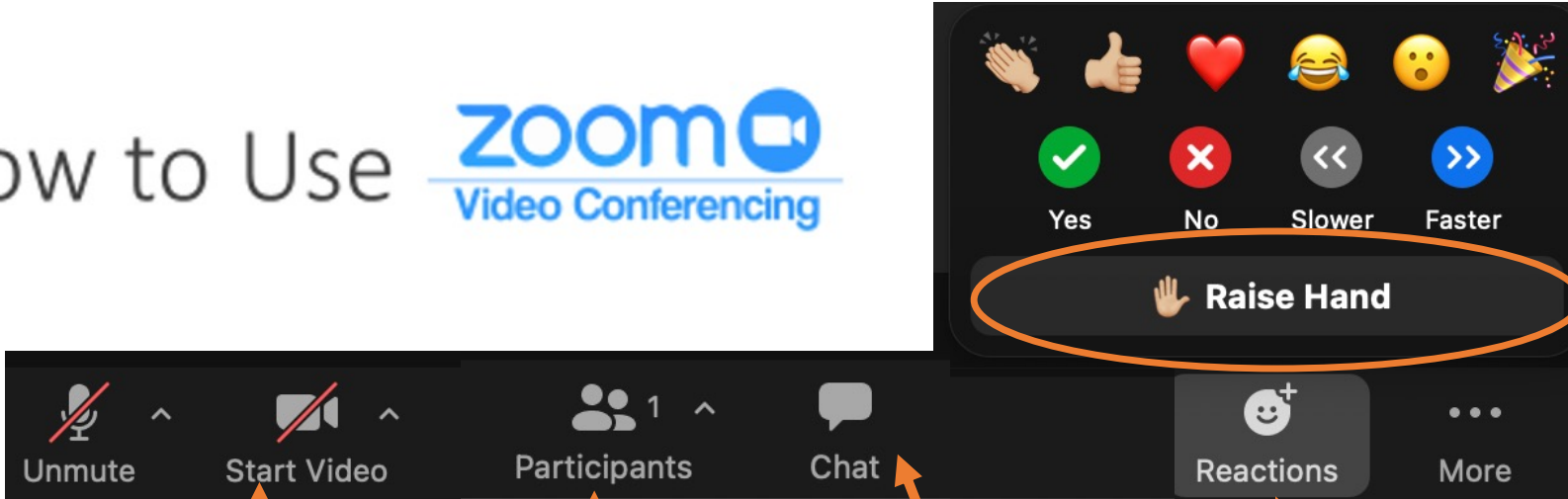
BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Public Workshop on CEMEX, Hanson Aggregates and other Bayview Point Facilities

**Virtual Public Workshop
Thursday, June 3, 2021**

Note: The Air District will be recording this public workshop

How to Use  Video Conferencing



Unmute
Please mute yourself when not speaking

Video

Participants

- See others
- Rename yourself (Name and Group/Agency Affiliation if applicable)
- Raise hand

Chat
To provide questions and or comments when chat is enabled

Reactions

- Raise hand
- give thumbs up
- applaud

If you need technical assistance at any time during this workshop, please call or text **(415) 604-1405**

Technical Assistance









- ▶ If you need technical assistance, please call or text **(415) 604-1405** OR email **info@interethnica.com**

Virtual Participation Principles

- ▶ **One** person speaks at a time.
- ▶ Be **respectful** of one another's opinions.
- ▶ Please **mute** yourself when you're not speaking.
- ▶ **Share video if you like** so we can stay visually connected.
- ▶ Technology happens – please be **flexible and patient**.

Workshop Agenda



- 1**  **Zoom Poll**
- 2**  **Icebreaker**
- 3**  **Opening Remarks**
- 4**  **Staff Presentation**
- 5**  **Comments and Questions**
- 6**  **Closing and Next Steps**

Polling Exercise



Who's in the room?

What is the top concern that brought you here tonight?



Materials: <https://www.baaqmd.gov/news-and-events/workshops>



Comments By: June 17, 2021

Welcome and Opening Remarks



District 10 Supervisor, Shamann Walton

President of the Board of San Francisco Supervisors

Bay Area Air Quality Management District Board of Directors

Veronica Eady

Senior Deputy Executive Officer of Policy & Equity

Bay Area Air Quality Management District



Updates to the Permitting Regulation

Materials available at: <https://www.baaqmd.gov/reg-2-permits>

*Next Steps: Prepare draft rule amendment text
based on comments received*



Staff contact:
Jacob Finkle
Senior Air Quality Specialist
Rule Development
jfinkle@baaqmd.gov

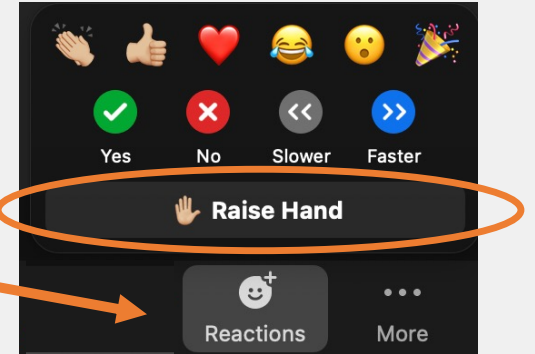
Icebreaker:

🔊✖ Please mute yourself when you're not speaking

👋 Please raise your hand if you wish to speak and wait for the facilitator to let you know when you can unmute yourself & speak

👤 One person speaks at a time

😊 Be respectful of one another



Materials: <https://www.baaqmd.gov/news-and-events/workshops>



Comments By: June 17, 2021

What do you hope to learn from this workshop?

comment...

What do you want to share with BAAQMD tonight?

Presentation Topics

Active Applications

- CEMEX Construction Materials Pacific
- Hanson Aggregates, Pier 92
- Hanson Aggregates, Pier 94

Other Neighborhood Facilities

- Central Concrete, Darling Ingredients, Recology

Ongoing Efforts



CEMEX

Central
Concrete

Amador Road

Hanson
Pier 92

Darling
Ingredients

Amador Road

Hanson
Pier 94

Recology





CEMEX Construction Materials Pacific

Concrete Production Facility

Multiple Locations in Bay Area

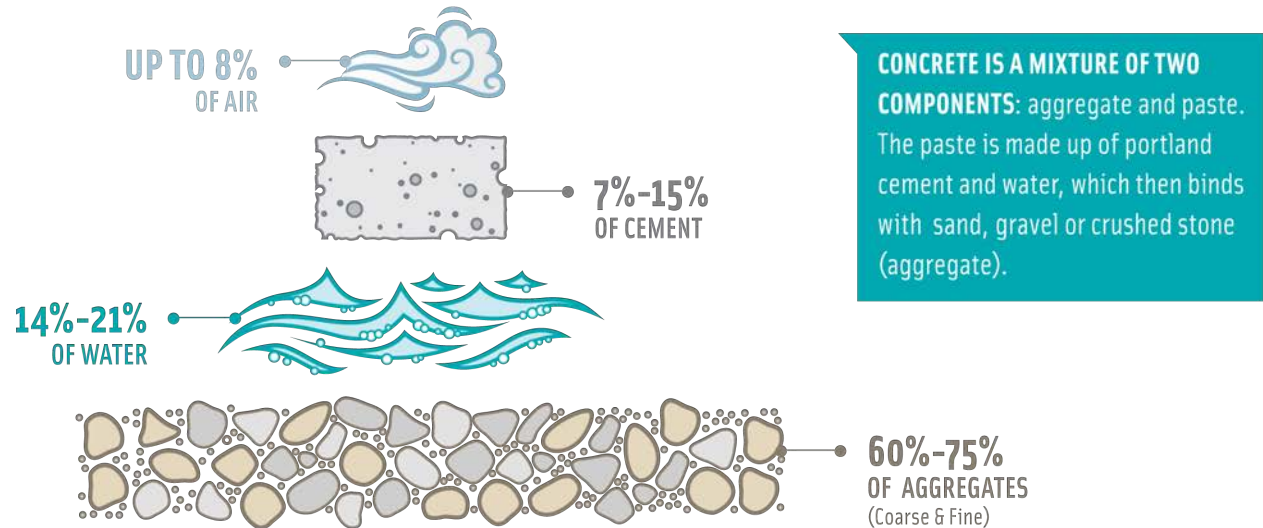
Imports material from British Columbia, which is brought to the facility by truck and by barge through the San Francisco Bay

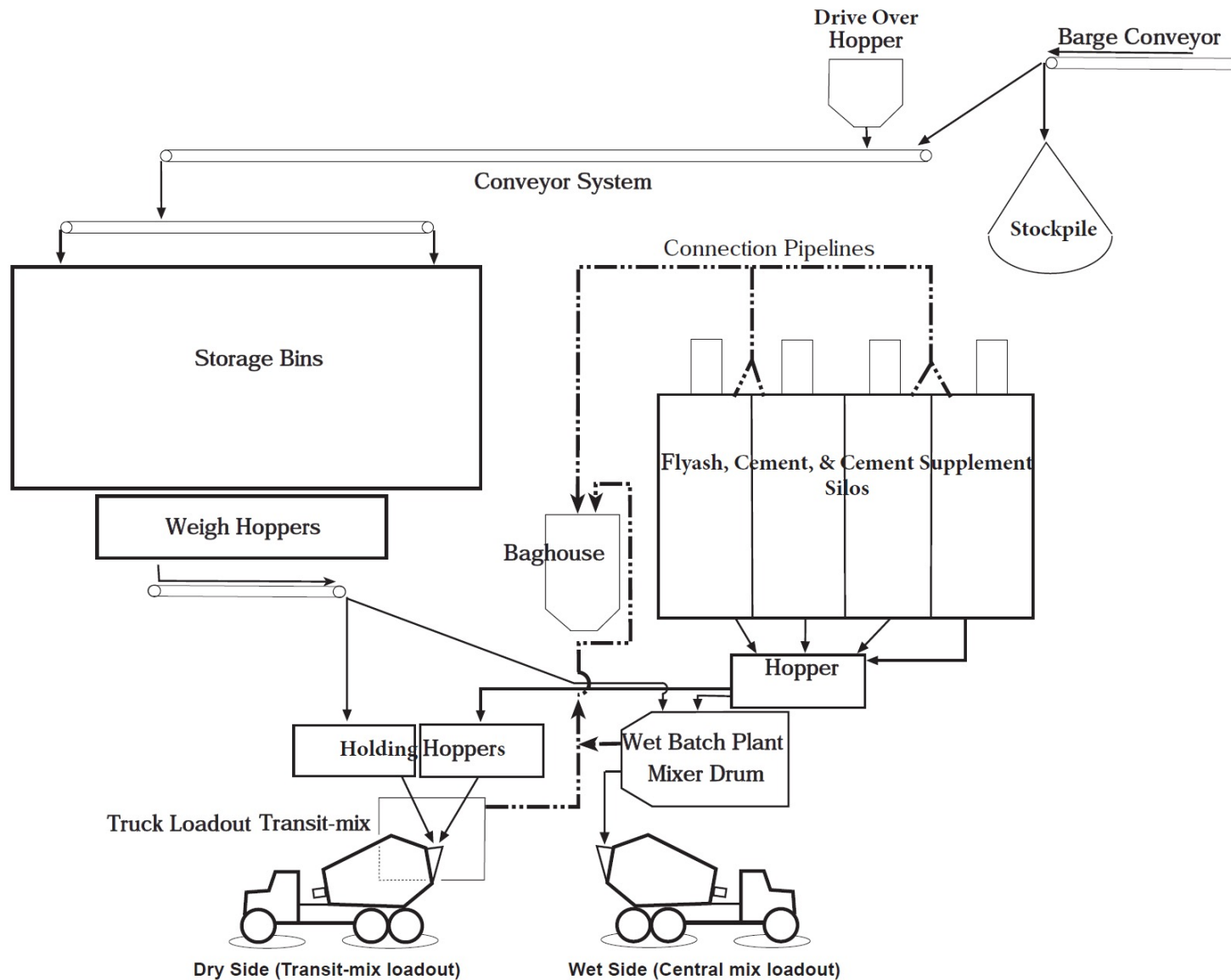


Overview of Concrete Batching

- Composed of water, cement, fine and coarse aggregate (sand and gravel)
- Cement supplement may be added to increase strength or influence other concrete properties

COMPONENTS OF CONCRETE





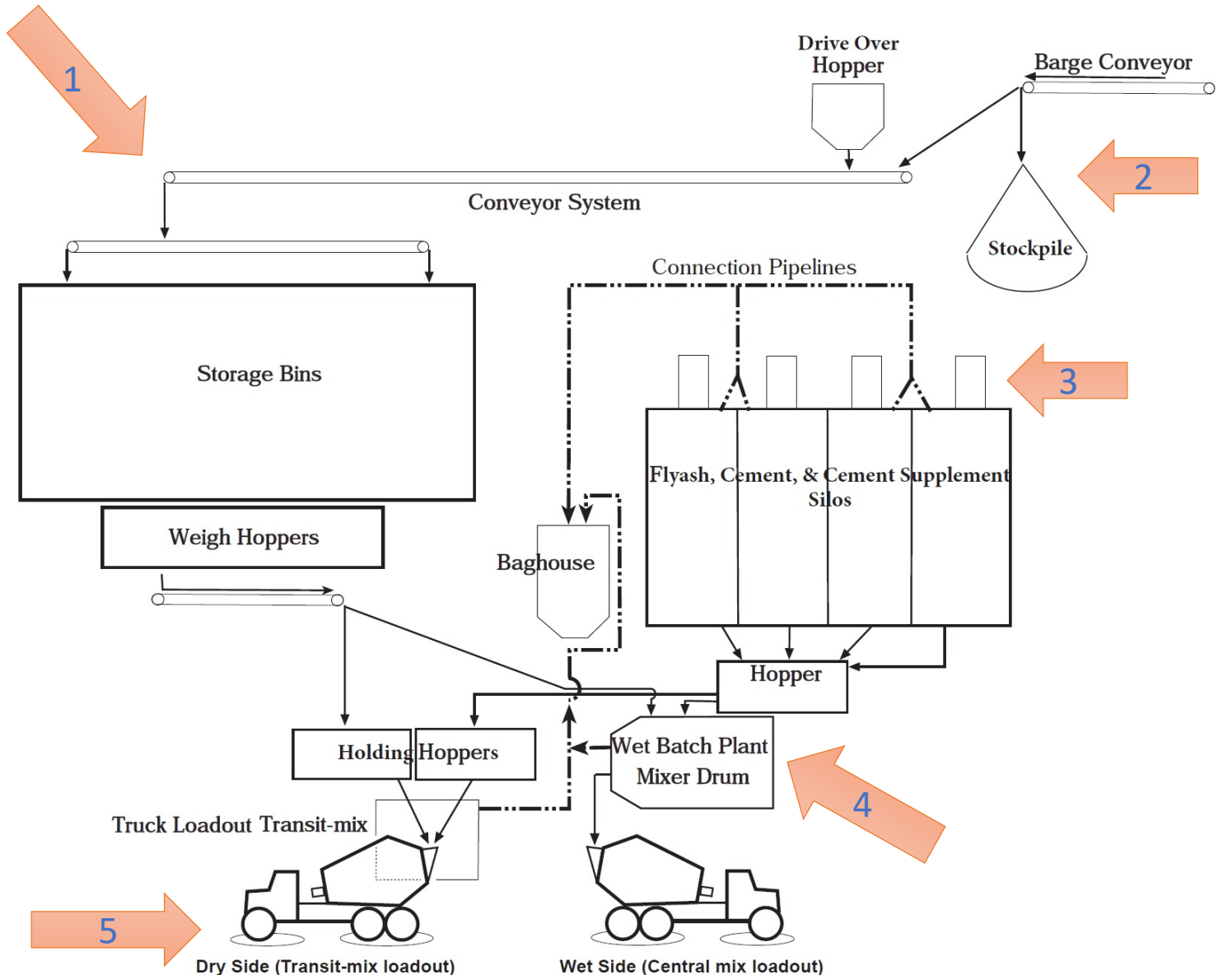
Process Flow

- Material brought by barge
- Dropped into storage pile or onto conveyors
- Stored in silos
- Unloaded into hoppers
- Combined with water in truck or central mixing



Source of Emissions

- 1) Drop Points
- 2) Wind Erosion
- 3) Silo Baghouse
- 4) Loading of Truck or Central Mixer
- 5) Road Dust
- 6) Oceangoing Vessel Engines (not pictured)



CEMEX Application #28001

- Site visit by Air District concluded the facility used more material than allowed
- **NOV issued 2016**
- Increase material throughput at barge conveyors
 - Sand increase to 235,572 tons per year
 - Aggregate throughput of 153,803 tons per year
- Material delivered by barge



Emissions Overview

PM10/PM2.5 and Crystalline Silica

- Material Transfer
- Wind Erosion of Stockpiles
- Vehicle Travel on Site

NO_x, CO, POC, SO₂, and PM

- OGV and Tugboat Engines



Analysis of CEMEX

- Conservative methodology used
- Emission calculations based on EPA published emission factors
- Crystalline silica emissions below levels that would trigger air modeling
- Visible emissions requirement
- Prohibition of trackout requirement



Permit Conditions

Production limits

Limits on number of ship trips and vehicle miles traveled

Improved recordkeeping requirements to ensure ongoing compliance

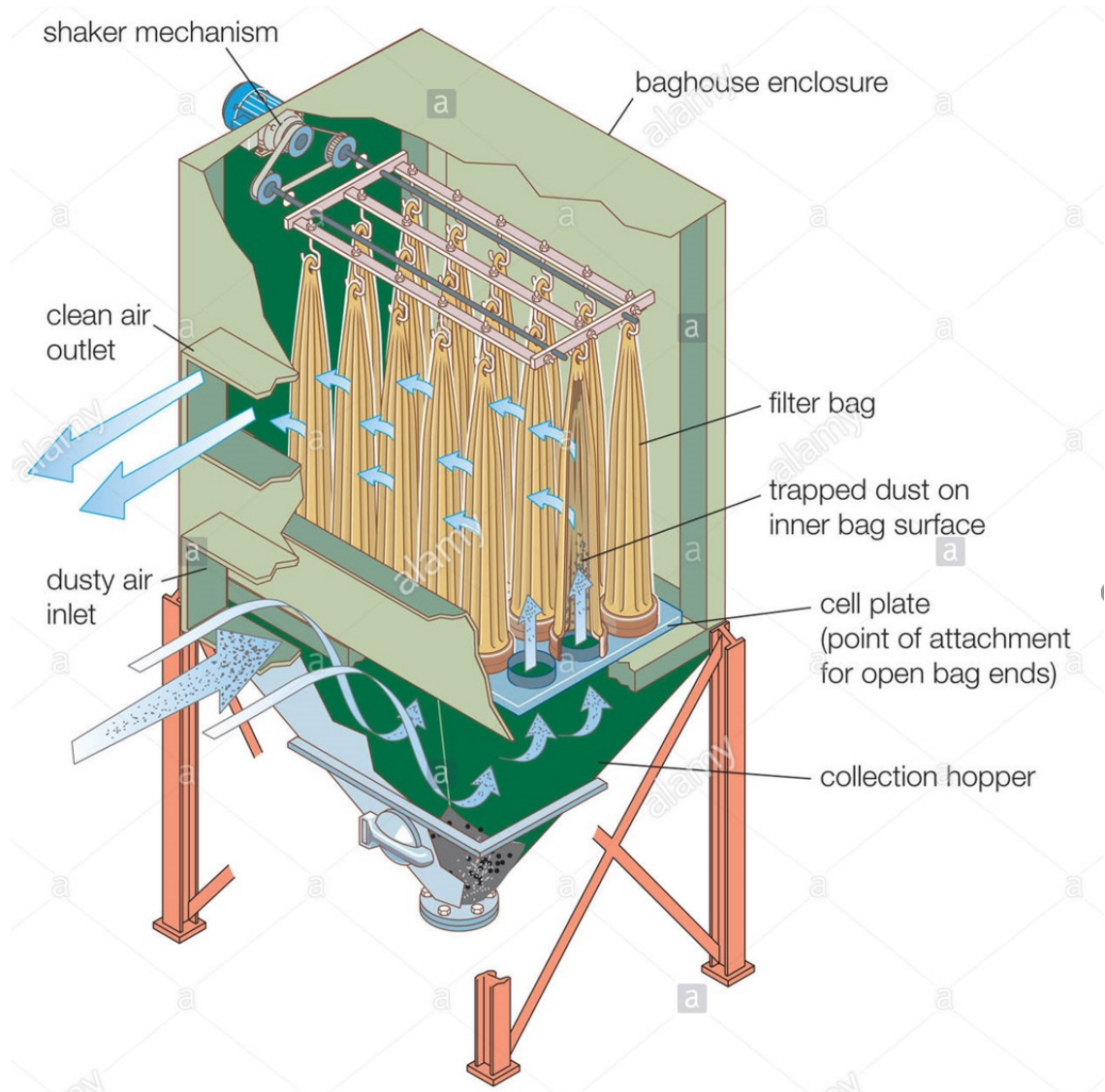
Stricter requirements to ensure proper abatement

Stronger requirements to minimize dust from truck traffic



Additional Mitigation

- Improved abatement by upgrading particulate filters
 - 99% collection efficiency
- New abatement to reduce particulate emissions from truck loading
- Dust Control Plan





Hanson Aggregates Pier 92 Hanson Aggregates Pier 94

Material Handling Facilities –
Supplier of building materials

Multiple Locations in Bay Area

Process sand dredged from San
Francisco Bay



Overview of Material Handling

- Material consists of sand and/or gravel
- Sources of air pollution
 - Storage piles
 - Conveyors
 - Dust from vehicle travel
 - Ships transporting material to site



Pier 92 Application #28839

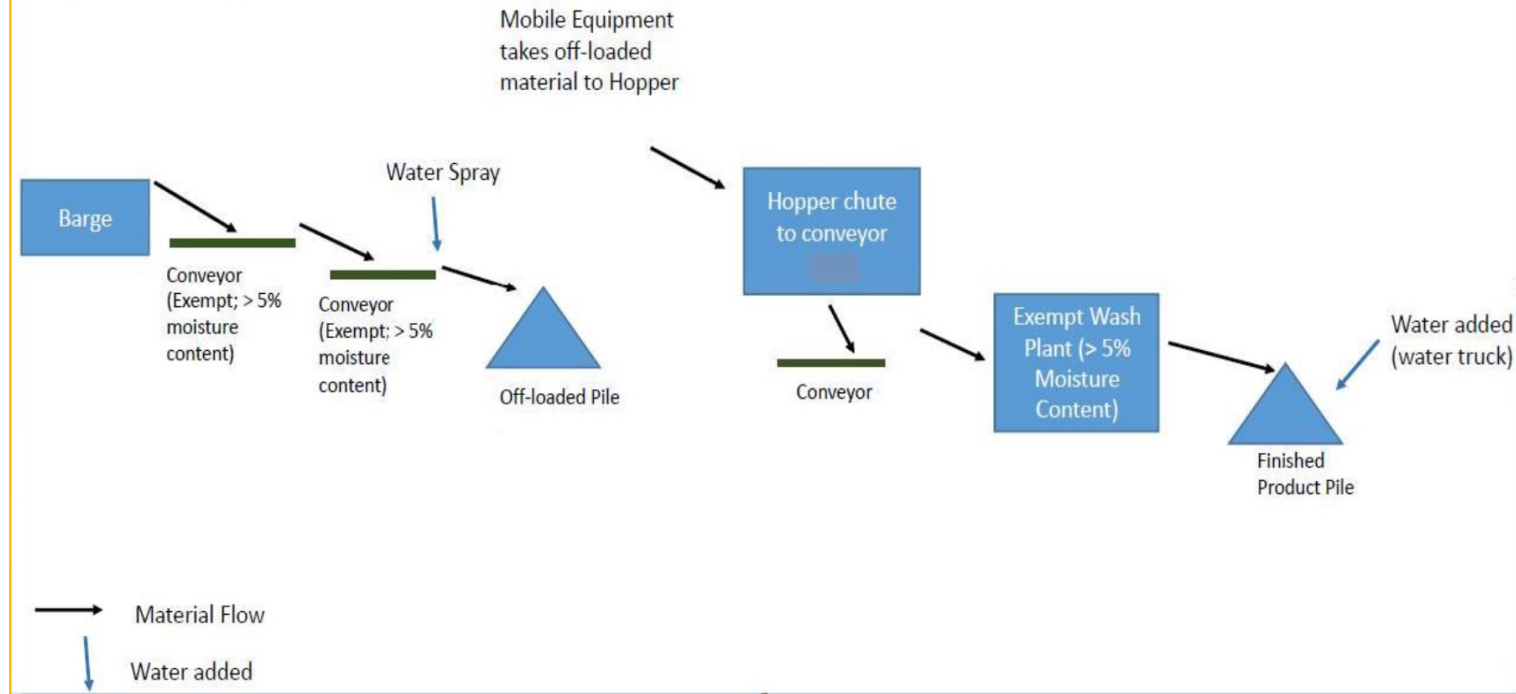
Pier 94 Application #27982

Site visit by Air District staff
identified H₂O content of material
no longer meet exemption

- Sources at Pier 92 were previously exempt from permitting (H₂O > 5%)
- **NOV issued to Pier 94**
- Permit applications to permit conveyors and stockpiles at both facilities



Pier 92
San Francisco, CA 94124
Process Flow Diagram



Process Flow Pier 92

Sand only

Material brought by barge

Offloaded via conveyor to stockpile

Washed

Transferred to stockpile



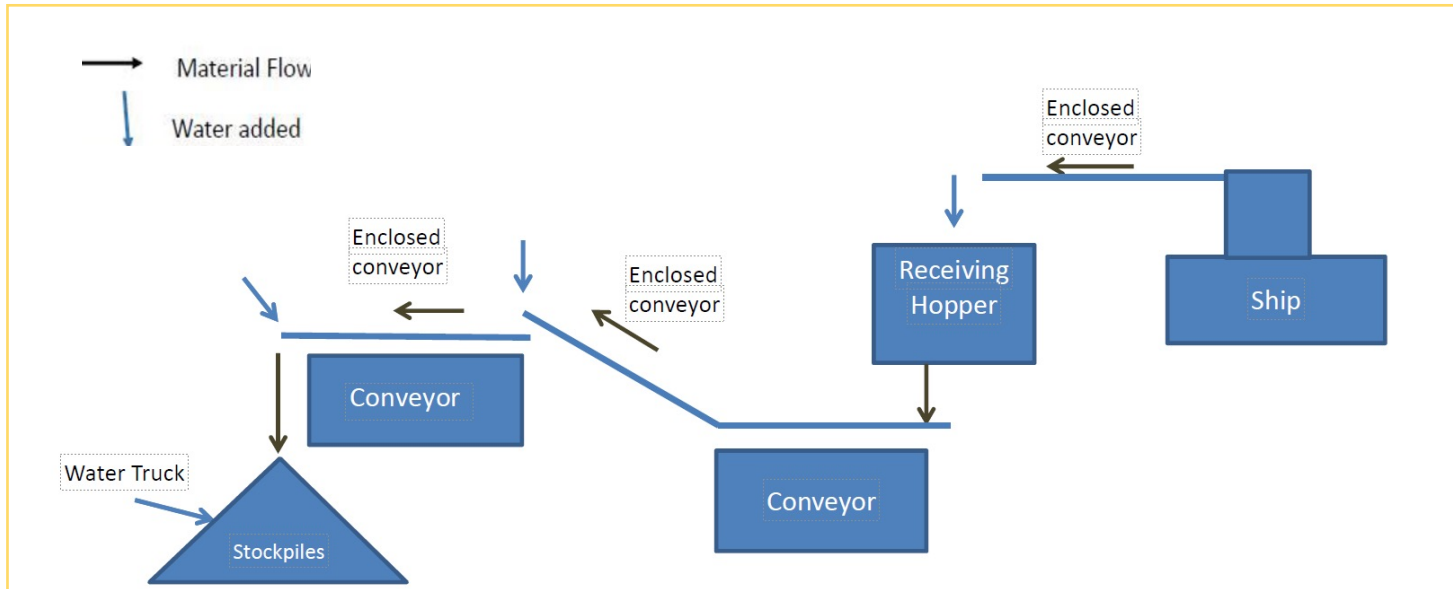
Process Flow Pier 94

Sand & aggregate

Material brought by ship

Offloaded via conveyor to receiving hopper

Conveyed to stockpiles



Emissions Overview Hanson Pier 92 and Pier 94

PM10/PM2.5 and Crystalline Silica

- Material Transfer
- Wind Erosion of Stockpiles
- Vehicle Travel on Site

NO_x, CO, POC, SO₂, and PM

- OGV and Tugboat Engines

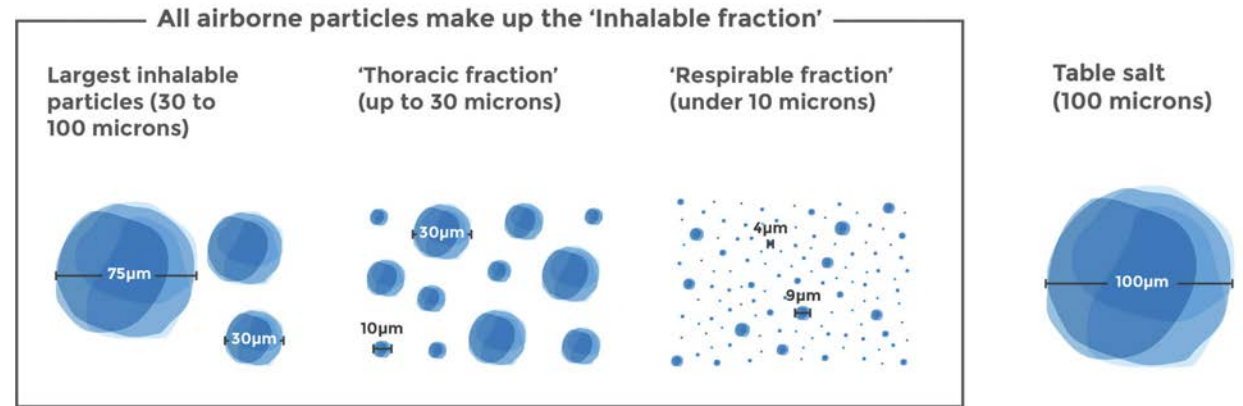


Analysis for Hanson Pier 92 and Pier 94

Emissions of respirable crystalline silica require air dispersion modeling

Respirable crystalline silica

- Potential for non-cancer health impacts resulting from long-term exposure



Emergency housing for homeless included in analysis

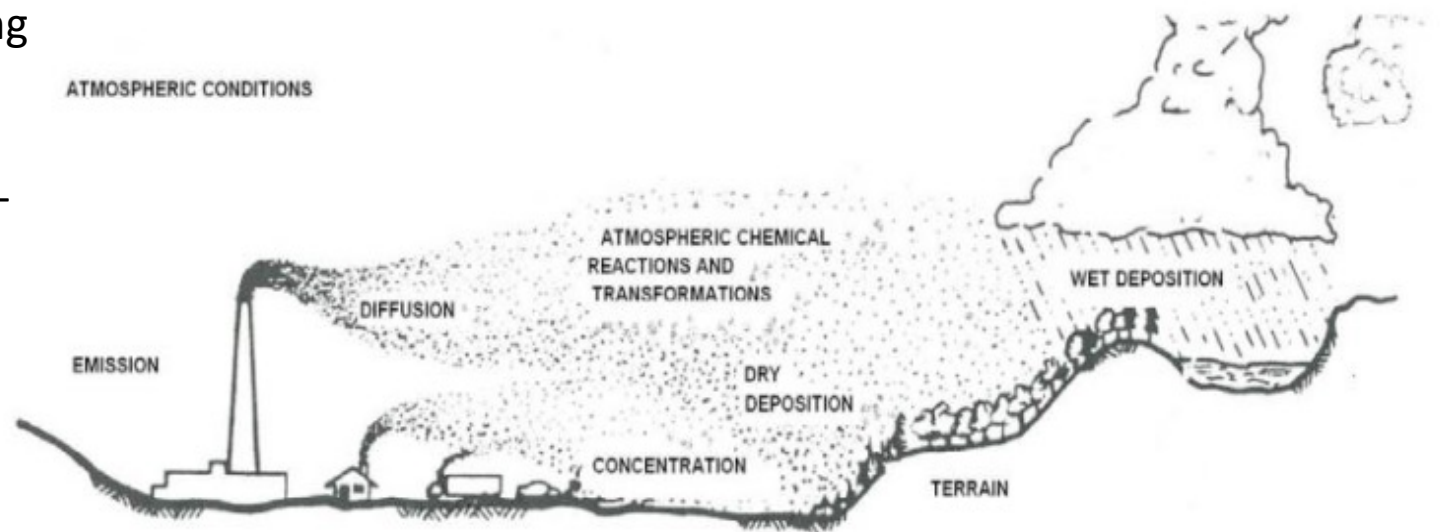
Health impacts determined using most health protective methods available

Maximum impacts occur at neighboring facilities



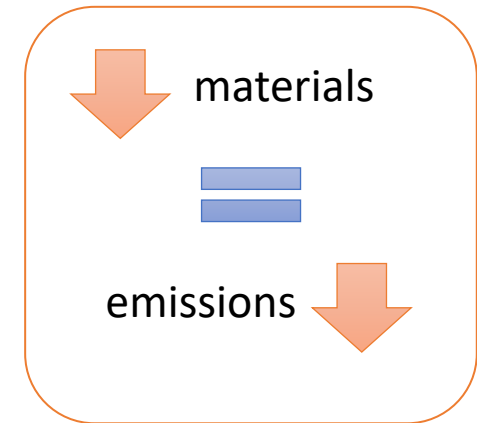
Health Risk Assessments

- Office of Environmental Health Hazard Assessment (OEHHA) procedures
 - Chronic Hazard Index: Potential for non-cancer health impacts resulting from long term exposure to air toxics.
 - Cancer Risk: Probability of contracting cancer during one's lifetime due to long term exposure to air toxics
 - Acute Hazard Index: Potential for non-cancer health impacts resulting from one-hour exposure to air toxics.



Permit Conditions Hanson Pier 92 and 94

- Production limits – Reduced material to comply
- Limits barge deliveries and vehicle miles traveled
- No visible emissions requirement
- Testing requirement for crystalline silica



Stricter requirements to ensure proper abatement

Stronger requirements to minimize dust from truck traffic





Central Concrete Supply Company

Air District Identified Unpermitted Sources:

- Cement Silo #1 abated by Baghouse
- Cement Silo #2 abated by Baghouse
- Flyash Silo abated by Baghouse
- Slag Silo abated by Baghouse
- Surge Hopper abated by Baghouse

Permit Issued 2018

Air District sued Central Concrete for violations of Health and Safety Code

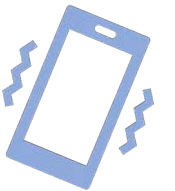




Darling Ingredients

- Fully permitted with no violations
- Processing equipment exhausts to venturi scrubber and thermal afterburner to control odor (abatement)
- One boiler with selective catalytic reduction system (abatement)
- Facility inspected in February 2021

Complaint Line: 1-800-334-ODOR (6367)



Recology

- Concrete crushing operation
- Applied for permit in 2016
- Disagreement over permitting portable equipment
- **Air District implements PERP equipment policy to require permits for portable equipment**
- **NOV issued 2021**
- **Facility to halt crushing operations at site until violation resolved**



Ongoing Efforts

Addressing Air Quality Issues through Regulations

- Adoption of Reg to prohibit truck trackout (Reg 6-6)
- Regulation to Reduce Risk from Air Toxic Emissions (Reg 11-18)
 - CEMEX in 2022
 - Central Concrete in 2022



Ongoing Efforts

California Assembly Bill AB617

- Partnering with community members to improve community health

AB 617 ELEMENTS • Focus on Community Action



Community
emissions
reduction
programs



Accelerated
retrofit of
pollution
controls on
industrial facilities



Community-level
air quality
monitoring



Enhanced
emissions
reporting



Increased
penalty
provisions



Grants
to local
community
groups



Ongoing Efforts

- Aclima Mobile Monitoring
- Greenaction Monitoring Network
- Brightline Defense Monitoring Network
- Purple Air Monitoring Network
 - Six sensors deployed by SF-AQ
- Berkeley Environmental Air Quality and CO₂ Network



Ongoing Efforts

San Francisco Community Risk Reduction Plan

- Partner with SF Planning and Public Health to identify areas of greater exposure
- **Cancer Risk:** Highest near roadways(**> 100 in a million**)¹
- Air Modeling from PM 2.5 and Health Risk Assessments Align

¹2020 Citywide HRA Technical Support Documentation

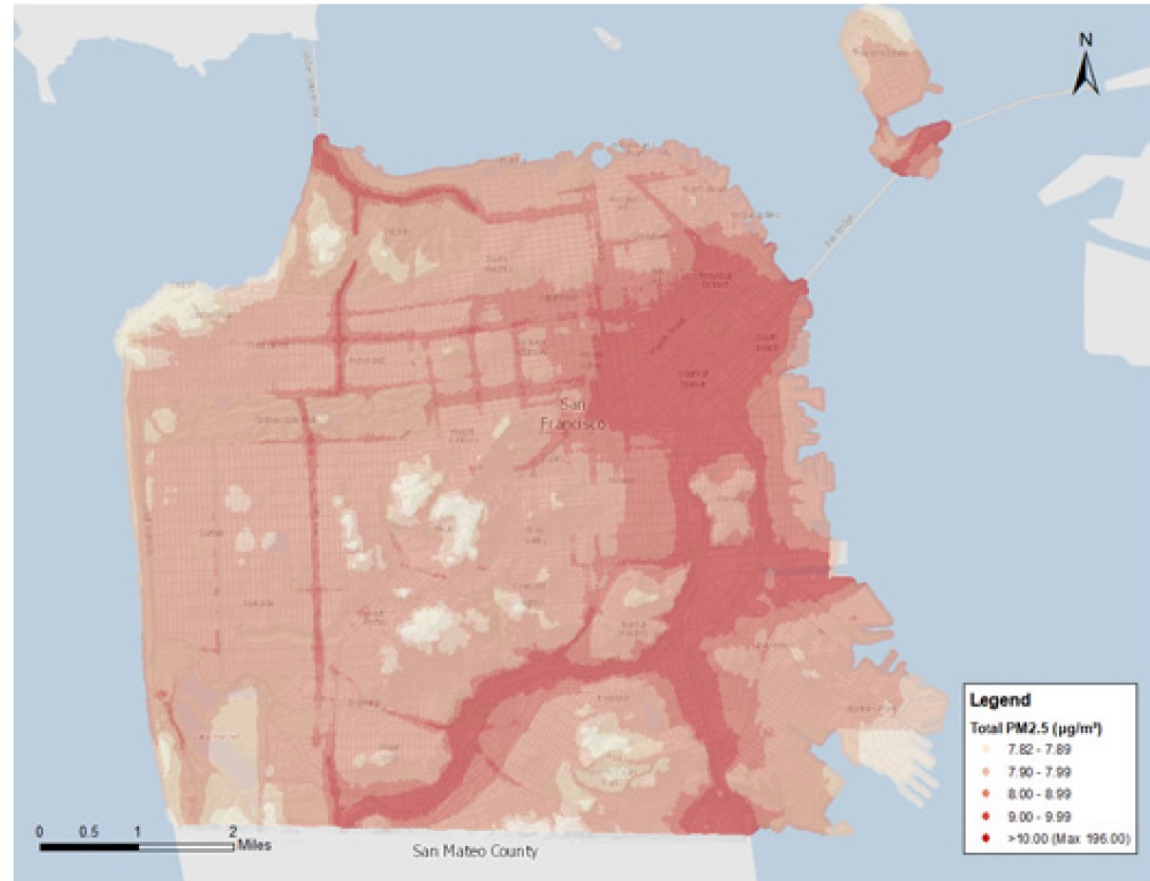


Figure 18. Annual Average PM_{2.5} from all Modeled Sources and Background Concentrations in San Francisco in 2020

Air District in Your Community

Increased Patrols

- 2016 Inspector patrols increased to weekly
- 2021 patrols increased to daily
- Sites last inspected in February 2021

Increased Engagement with Community Leaders

- Air District participation in Bayview Hunters Point Taskforce Meetings
- Site tours and meetings to discuss concerns





Public Comments Due June 17, 2021

PermitOmbudsman@baaqmd.gov

AB617 Involvement: <https://www.baaqmd.gov/community-health/community-health-protection-program>



Materials: <https://www.baaqmd.gov/news-and-events/workshops>



Comments By: June 17, 2021

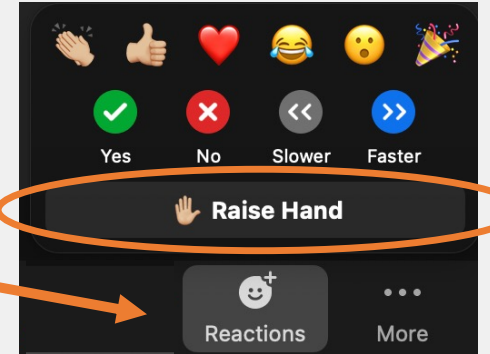
Comments, Questions and Answer Session



Please mute yourself when you're not speaking



Please raise your hand if you wish to speak and wait for the facilitator to let you know when you can unmute yourself & speak



One person speaks at a time



Be respectful of one another



Materials: <https://www.baaqmd.gov/news-and-events/workshops>



Comments By: June 17, 2021

Active permits (i.e. CEMEX, Hanson Aggregates Pier 92 and Pier 94)

Other facilities (i.e. Recology, Central Concrete, Darling Ingredients)

comment..

Monitoring/Modeling

Ongoing Enforcement

Other

Workshop Evaluation

The Air District Wants Your Feedback!

Help us improve our workshops and rule development process by completing this short survey in the link below.

<https://www.surveymonkey.com/r/CZZKL27>



Thank you and Closing Remarks



Veronica Eady

Senior Deputy Executive Officer of Policy & Equity
Bay Area Air Quality Management District



Closing and Timeline

Materials available at: www.baaqmd.gov/news-and-events/workshops



Workshop
Comments Deadline:

June 17, 2021

- Comments received will be posted to website
- Contact staff to discuss or for follow-up questions

Staff contact:
Simrun Dhoot
Supervising Air Quality Engineer
Engineering Division | Permitting — Toxics Section
sdhoot@baaqmd.gov

THANK YOU FOR YOUR ENGAGEMENT

Next Steps

Next Steps



Engagement Opportunity!

→ Public Comments due by **June 17, 2021**

Materials: <https://www.baaqmd.gov/news-and-events/workshops>



THANK YOU FOR YOUR ENGAGEMENT