



PROPOSED **ROCK CRUSHER RULES**

Stakeholder Briefings
September 27 & 28, 2021





HOUSEKEEPING

- Submit questions in the chat during the presentation.
- We will take live questions at the end as time permits.
- We will be recording the meeting.
- The recording will be posted at <http://www.cityofchicago.org/environmentalrules>.



AGENDA

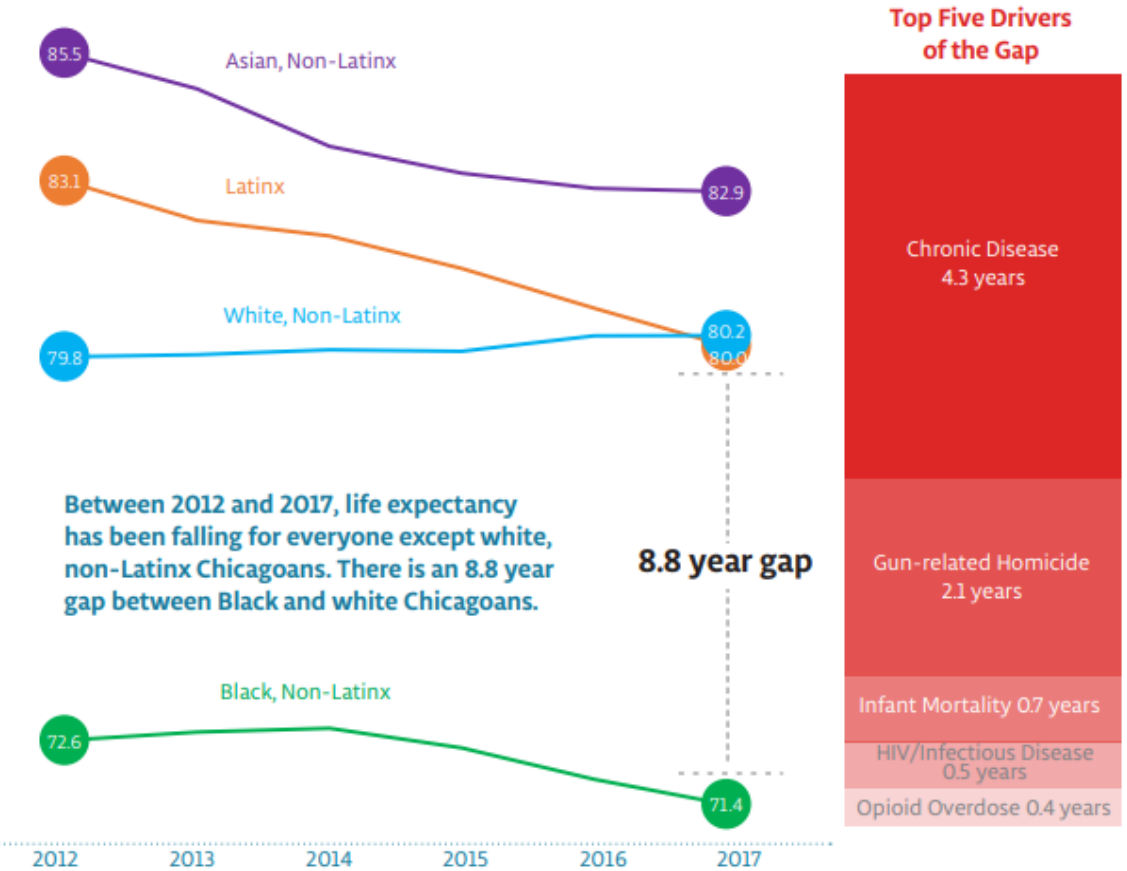
- **Welcome**
- **Information Sharing**
 - Proposed Rules for Reprocessable Construction/Demolition Material Facilities – Megan Cunningham, Managing Deputy Commissioner; Dave Graham, Assistant Commissioner; Renante Marante, Environmental Engineer III, CDPH
 - Next Steps – Megan Cunningham, Managing Deputy Commissioner, CDPH
- **Q&A**

★ HEALTHY CHICAGO 2025

VISION

A city where all people and all communities have power, are free from oppression and are strengthened by **equitable access to resources, environments and opportunities** that promote optimal health and well-being.

CHICAGO'S LIFE EXPECTANCY GAP, 2017










★ HEALTHY CHICAGO 2025

CLOSING THE LIFE EXPECTANCY GAP, THE HEALTHY CHICAGO 2025 WAY

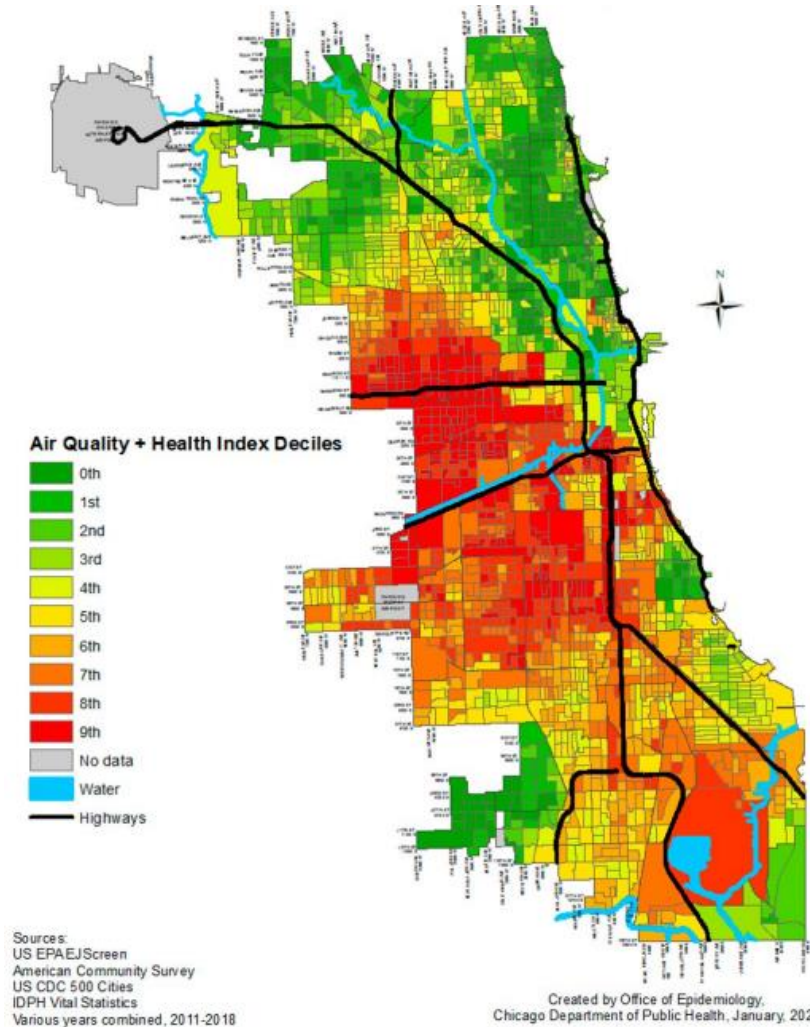
Here's how we - the local public health system, including government, community organizations, academic institutions, businesses and others who support a Healthy Chicago - will make change, together, over the next five years and for generations to come.

- Pollution exposure contributes to chronic illness, the primary driver of Chicago's life expectancy gap.
- Addressing pollution is a priority under Healthy Chicago 2025.

Assessment themes	To close the racial life expectancy gap, we will...							
Assessment priority areas	Address inequities in...							
Populations experiencing inequities	With a focus on...	Black, Latinx and low-income Chicagoans	Black, Latinx and low-income Chicagoans	Communities disproportionately burdened by pollution	Black Communities	Disinvested and gentrifying communities	Black, Latinx and low-income Chicagoans	Black and Latinx Chicagoans
Ideal states	So within one generation, all Chicagoans...	Have a healthy, affordable home	Have enough nutritious food and local food businesses thrive	Breathe clean air free of harmful pollutants	Are safe across the city and have trusting relationships with law enforcement	Live in vibrant neighborhoods that reflect their identities	Benefit from a full range of health and human services	Have voice and power in the public health system
Healthy Chicago 2025 vision	In a city where...	All people and all communities have power, are free from oppression and are strengthened by equitable access to resources, environments and opportunities that promote optimal health and well-being.						

★ AIR QUALITY + HEALTH INDEX

- The City's Air Quality + Health Index combines **community-level data on air pollution, health, and social factors** to identify the areas in our city that are most vulnerable to the effects of air pollution.
- Census block groups in green are less vulnerable, while block groups in red are more vulnerable.





CDPH ENVIRONMENTAL POLICY

- CDPH has taken steps to improve environmental health and air quality:
 - Rules for Control of Emissions from Handling and Storage of Bulk Materials (petcoke in 2014 and manganese in 2019)
 - Rules for Large Recycling Facilities (2020)
 - Ordinance to raise fines for air pollution violations (2021)
 - Air Quality and Zoning ordinance (2021)
 - Rules for Demolition by Implosion (2021)

★ WHAT ARE ROCK CRUSHERS?

- The facilities process construction materials, such as broken concrete, bricks and asphalt, for reuse.
- They play an important part in municipal waste management and the City's construction and demolition debris recycling ordinance.
- The alternative is temporary rock crushing set up at construction sites, putting them close to residential and commercial areas.



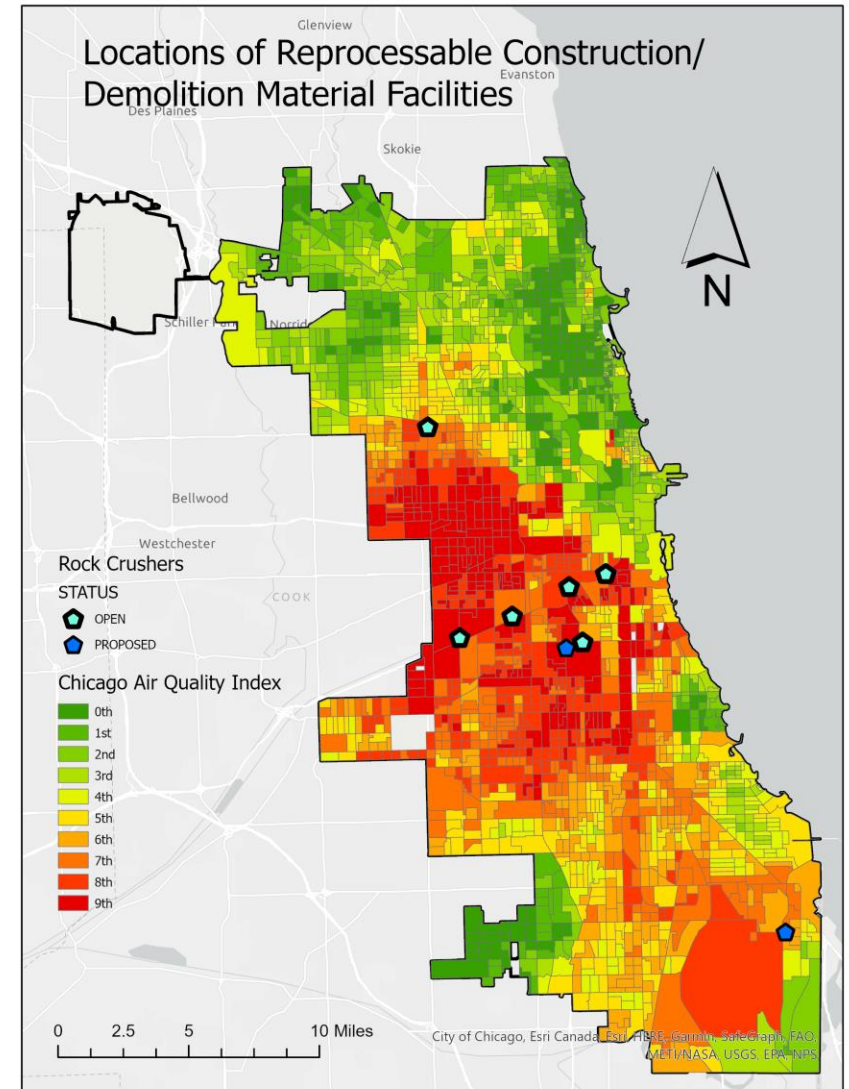
★ WHY REGULATE?

- Rock crushing involves large stockpiles that can cause dust.
- The dust can contain silica, which can damage lungs, or lead which can have neurological effects.
- The facilities are a source of community concerns and complaints.



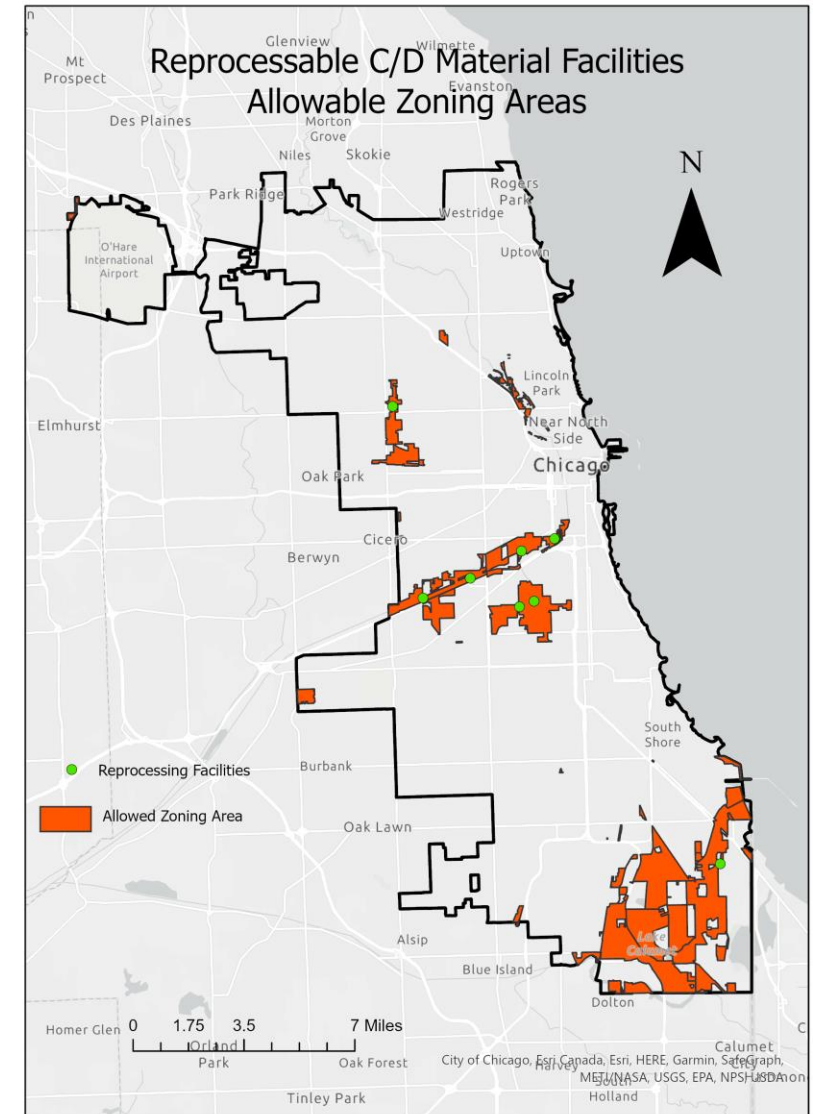
★ DISTRIBUTION OF FACILITIES

- Where are rock crushers located?
 - 6 existing facilities
 - 2 proposed facilities
 - The facilities are predominantly located in vulnerable communities.



★ DISTRIBUTION OF FACILITIES

- Where are rock crushers allowed?
 - Allowed as a special use in M3 zoned areas and PMDs 6, 8a, 9, 11a, 12, 13 and 14.



★ COMMON ISSUES





CDPH ROLE AND AUTHORITY

- CDPH issues permits for rock crushers with requirements specified by Section 11-4-1930 of the Municipal Code.
- CDPH's Commissioner has general rulemaking authority for implementation of environmental ordinances, and specific authorities related to material testing, noise, etc.
- Rock crushers cannot operate without zoning approval and all required CDPH permits.
- Enforcement of permitted facilities includes routine and complaint-based inspections to ensure operations are consistent with the permit and issuing citations if violations are found.



DEVELOPMENT OF PROPOSED RULES

- Adapted from other CDPH environmental rules – for large recycling facilities, waste transfer stations and bulk material storage facilities.
 - We received many comments on the large recycling facility rules, which were incorporated in the final draft to strengthen them and are also incorporated in these proposed rules.
- Additional requirements to address issues specific to rock crushers.
- Incorporated IDOT standards for testing aggregate for moisture and lead.
- Reviewed types of complaints about existing facilities, such as dust and noise.
- Informed impacted City departments, including DWM, DSS, CDOT, of proposed changes.
- All requirements of the proposed rules will apply to new and expanding facilities; certain requirements for existing facilities upon next permit renewal.



BANS AND LIMITS

- Ban on visible dust leaving the property
- Stockpile height limit
- Material volume and content limits for incidental debris
- Thorough, daily cleaning of paved and unpaved surfaces
- Demonstration there will be no excessive noise during night operations



DETAILED PLANS AND DESIGNS REQUIRED

- Air impact study to model impacts from equipment, processes, road dust and other sources to ensure facilities will stay within federal standards
- Action plan detailing steps to prevent air pollution violations
- Fugitive dust plan with strong controls for prevention
- Noise study to ensure compliance with City's noise ordinance and noise abatement plan for night operations
- Traffic study for new and expanding facilities to ensure impacts to local traffic are limited
- Stormwater management and pollution prevention plans to ensure adherence to City ordinances and the Clean Water Act
- Load screening plan to ensure unauthorized materials, such as those containing lead-based paint, are not accepted
- Site design requires paving within 100 feet of property line for new and expanding facilities

STRONG MONITORING & TRANSPARENCY

- Continuous, 24/7 air monitoring
- Air monitoring near sensitive areas such as homes, parks and schools – and where air study shows that federal limits may be exceeded
- Real-time, automatic notification to CDPH if particulate matter exceeds warning level over 15-minute period
- Weekly sampling of stockpile materials for compliance with limit on surface moisture content (**NEW for rock crushers**)
- Testing of reprocessed materials for lead, other constituents by request (**NEW for rock crushers**)
- Stringent record-keeping & reporting
- Public notice and comments for any variance request



AIR QUALITY ZONING ORDINANCE

- Applicants for a new or expanded rock crushing facility will be able use the same air study to apply for zoning approval and a permit.
- Applicants will also have to model air impacts from mobile sources, like diesel trucks, based on the required traffic study.
- CDPH will review the studies and provide comments and recommendations to the Zoning Administrator.
- The study will be posted online for public review and comment.



NEXT STEPS

- The proposed rules are available at www.cityofchicago.org/environmentalrules.
- Written comments on the proposed rules should be sent by email to EnvComments@cityofchicago.org on or before **October 18, 2021**.
- CDPH will prepare and post a summary document of comments and responses.
- After reviewing comments and making final changes, CDPH will formally adopt the rules, which will be posted on our website.



Q&A

- We invite questions on the proposed rules
 - First, we'll take questions from the chat.
 - If time permits, we'll take live questions.
 - Use the raise hand feature.
 - We will allow you to unmute your line.
 - Limit questions/comments to 2 minutes.
- If you have substantive comments on the proposed rules, please submit them in writing.