



SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

Public Meeting/ Public Hearing

Luck Edgefield Quarry

August 08, 2024





SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

Introducing SCDES

As of July 1st, 2024, SC DHEC has been replaced by two cabinet-level agencies:

- SC Department of Public Health (DPH)
- SC Department of Environmental Services (SCDES)





SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

Tonight's Public Meeting/Hearing

- Share information on the proposed Luck Edgefield Quarry and SCDES's role and the environmental permitting processes.
- Answer your questions.
- Convene a formal public hearing to record oral comments.
- No decision will be made tonight.
 - Notice of the decision will be shared with those who signed in tonight.

More information on this project may be found at des.sc.gov/LuckStoneEdgefield

Agenda

- Introduction
 - Mining Presentation
 - Air Permitting Presentation
 - Questions & Answers
 - Intermission
 - Public Hearing
-



Mining Presentation

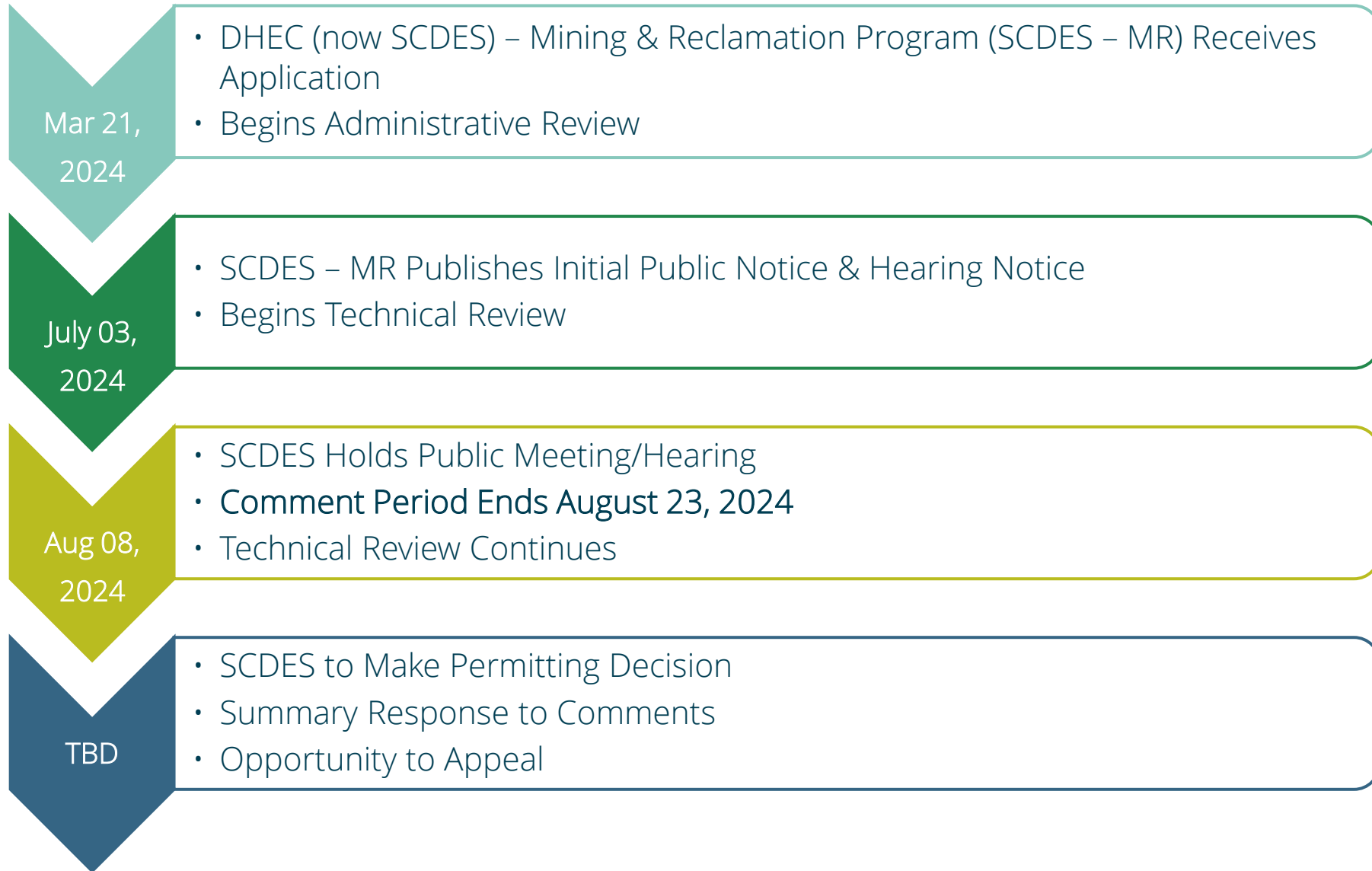


Mining Topics

- Mine Permitting Process
- General Information
- Proposed Permitted Area
- Reclamation
- Addressing Common Concerns
- Next Steps

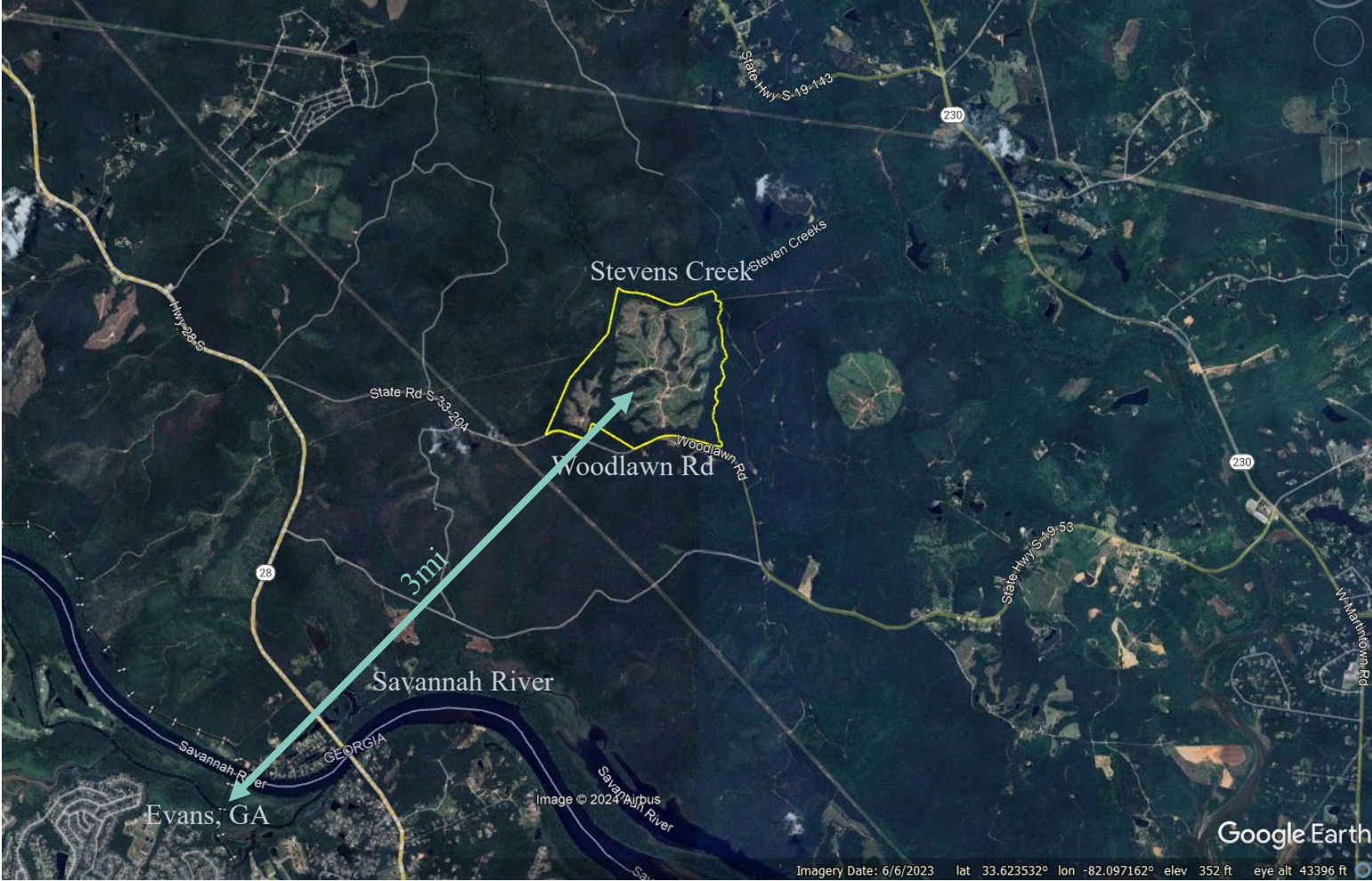


Timeline



Proposed Site

- TMS#: A portion of 058-00-00-039
- Total Area: 424.5ac
- Current Land Use: Undeveloped
- Owner: Wilkie Development, LLC (under a purchase agreement)



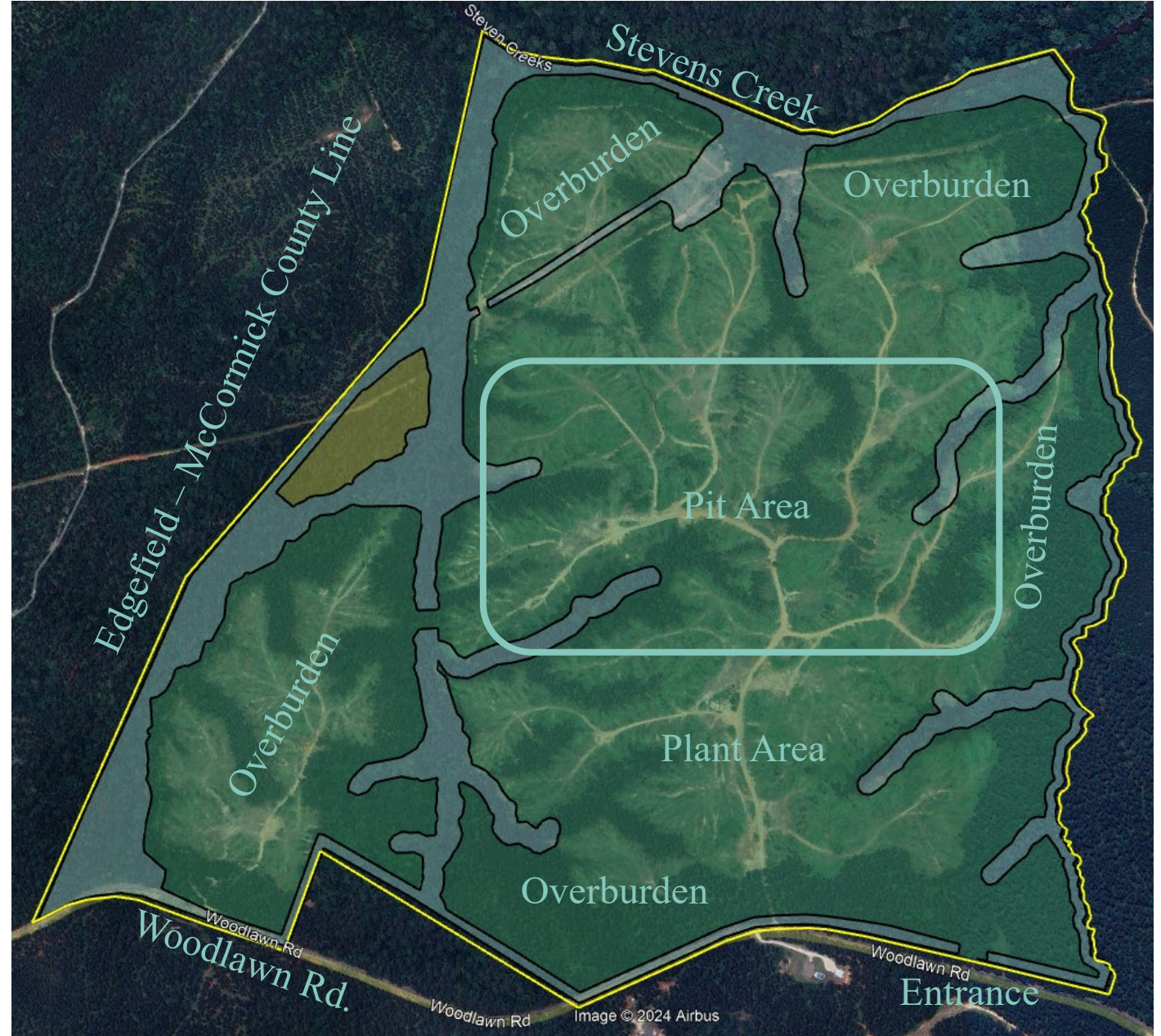
Proposed Permitted Area

- Total Area: 424.5ac
- Affected Area: 344.5ac
- Buffer: 74.1ac
- Future Reserves: 5.9ac



Proposed Permitted Area

- Total Area: 424.5ac
- Affected Area: 344.5ac
- Buffer: 74.1ac
- Future Reserves: 5.9ac



Proposed Mining Process

- Installation of Best Management Practices (BMPs)
- Clearing of trees and vegetation
- Topsoil removed and stockpiled for future reclamation



Silt fence



Brush Barrier



Stormwater Basin



Water Truck



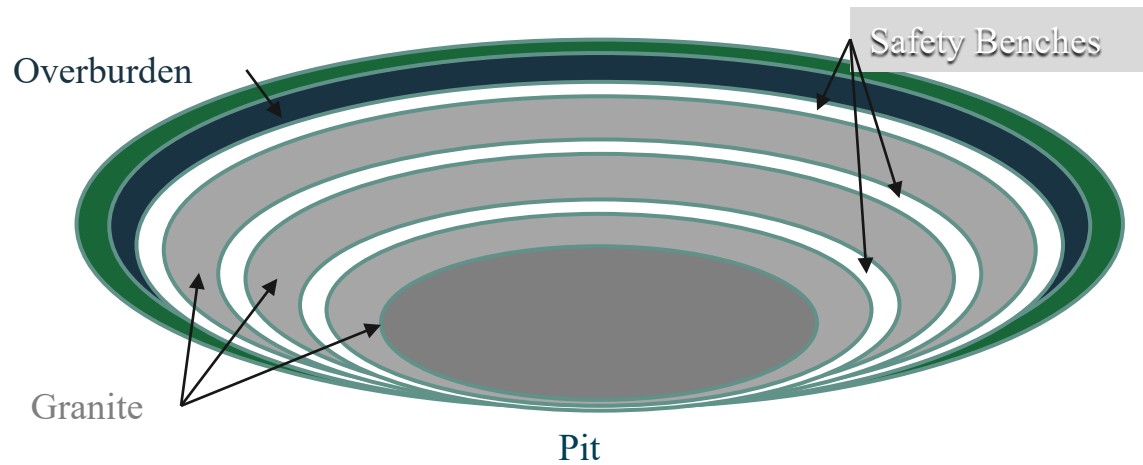
Check Dams

Proposed Mining Process

- Overburden stockpiled and reclaimed as soon as feasible
- Pit developed and dewatered, as needed
- Granite processed and stockpiled in plant area



Reclaimed Overburden Stockpile



Granite Quarry Pit



Proposed Mining Process

- Maximum Proposed Depth: 400ft below ground surface
- Applicant Requests Permission to Blast
 - Landowners with structures within one-half mile of blasting will be offered a pre-blast survey

Reclamation

Reclamation is the planned process for restoring the affected land to a useful purpose while protecting natural resources of the surrounding area.

- Reclamation Plan included in application
 - Will be reclaimed to ponds and grasslands
 - Land will be sloped and graded during the mining process
 - Stockpiled topsoil will be used to grow vegetation
- Financial assurance is required prior to permit issuance to ensure that reclamation is completed.

Reclamation



Other SCDES Requirements

- Bureau of Air Quality
 - Air Synthetic Minor Construction Permit
- Bureau of Water
 - National Pollution Discharge Elimination System (NPDES)
General Permit for Non-Metal Mineral Mining
 - Stormwater Pollution Prevention Plan (SWPPP)

Other Agency Notifications

- MSHA – Mine Safety and Health Administration
- USFWS – U.S. Fish & Wildlife Service
- SCDNR – S.C. Department of Natural Resources
- SHPO – State Historic Preservation Office
- SCDOT – S.C. Department of Transportation
- County Administrator

Common Concerns

- Blasting
- Dewatering
- Dust
- Noise
- Public Safety
- Other Concerns

Other Concerns

- Truck Traffic
 - SC DOT District #2: Kevin McLaughlin 864-227-6971
 - SC Public Service Commission District #3: Stephen “Mike” Caston 803-896-5100
 - Edgefield County Roads & Bridges Office: Jimmy Feagin 803-637-4073

- Property Value/Zoning
 - Edgefield County Building & Planning: Hart “Doc” Clark 803-637-4073

Next Steps

- The Bureau of Land & Waste Management (BLWM) will review all comments received and conclude the technical review of the application package.
- BLWM will make a final permitting decision and provide notification and a written response to all comments to everyone on the mailing list.
- Final decision date begins 30-day appeal period.



SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

Get in touch

Jeremy E. Eddy, PG // Manager – Mining & Reclamation Program

Jeremy.Eddy@des.sc.gov

803.898.7609

des.sc.gov

@SouthCarolinaDES



Air Permitting Presentation





SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

**Luck Stone Corporation – Luck Edgefield
Draft Synthetic Minor Air Construction Permit
Bureau of Air Quality**

August 8, 2024

Project Overview

Stone Processing Plant

- Crushers
- Screens
- Conveyors

Additional Sources of Dust

- Plant and Customer Haul Roads
- Storage Piles

Draft Air Construction Permit

Primary Pollutant: particulate matter (dust)

Permit compliance demonstration includes minimization and control of dust

Weekly recorded inspection of water spray systems to ensure proper operation and dust control

Potential (worst case) emissions with wet suppression (the controlled emissions) are below major thresholds

Particulate Matter

Mixture of solid particles and liquid droplets

PM₁₀: Inhalable particles, with diameters 10 microns (μm) and smaller

PM_{2.5}: Fine inhalable particles, with diameters 2.5 μm and smaller

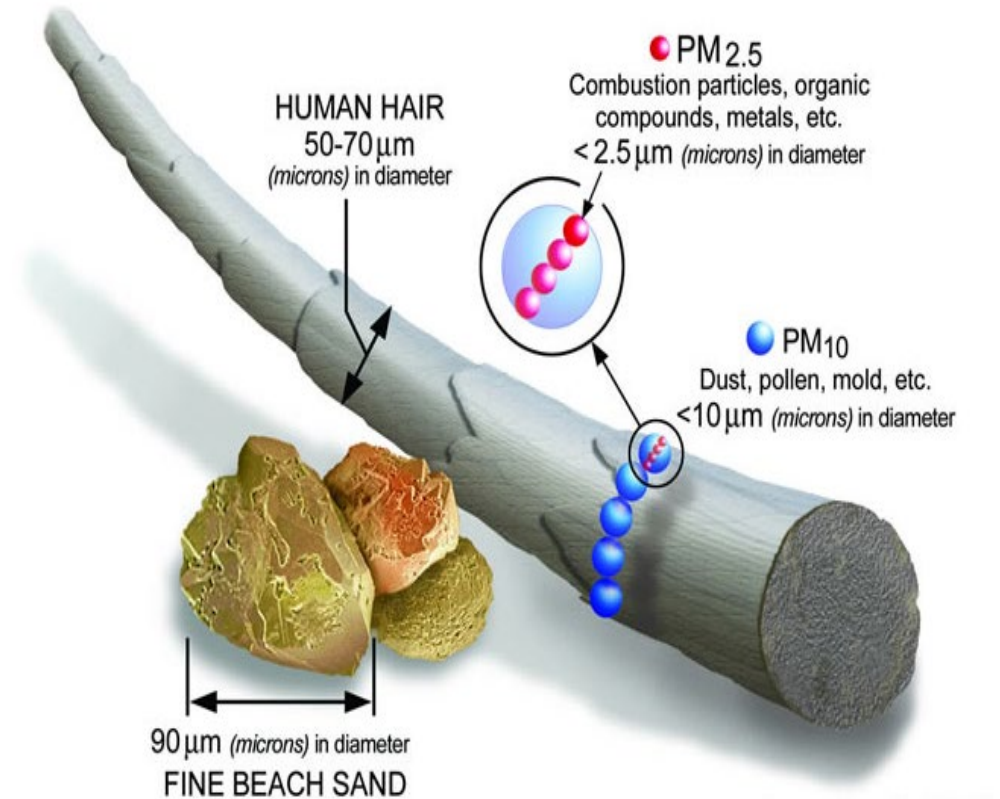
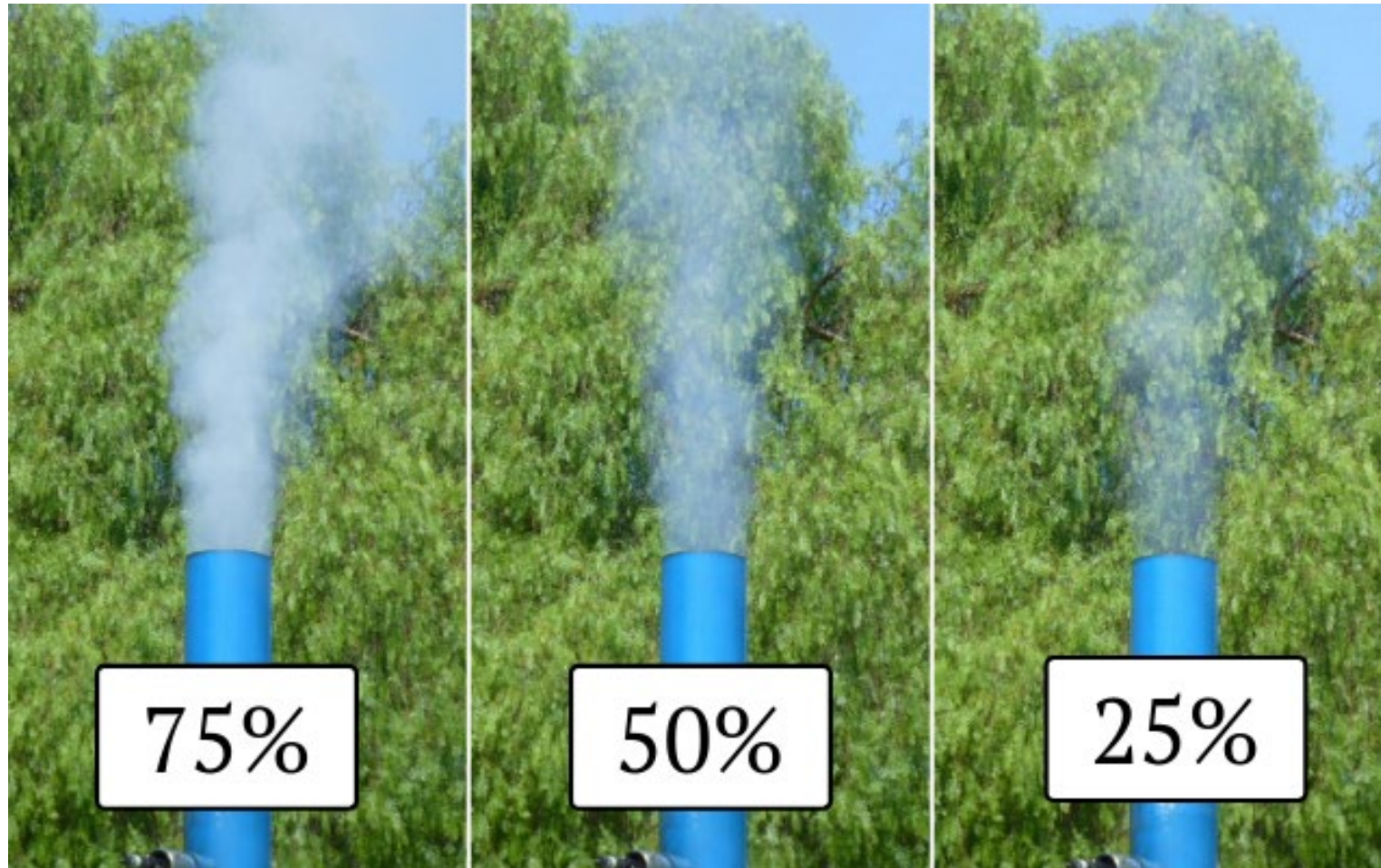


Image courtesy of the U.S. EPA

Opacity Limits

- Required to test equipment for compliance with opacity limits
 - 7% opacity limit for screens and conveyors
 - 12% opacity limit for crushers
- 20% facility-wide opacity limit (includes dust from process equipment, storage piles, and on-site truck traffic)

Example Simulated Opacities



Air Quality Analysis

Air Pollutant	Max Facility Predicted Concentration ($\mu\text{g}/\text{m}^3$)	Location Background Concentration ($\mu\text{g}/\text{m}^3$)	Total Concentration ($\mu\text{g}/\text{m}^3$)	State/Federal Standard ($\mu\text{g}/\text{m}^3$)	Meets Standard?
PM ₁₀ 24-hr	35.1	36	71	150	Yes
PM _{2.5} 24-hr	2.9	14.1	17	35	Yes
PM _{2.5} Annual	0.5	7.1	8	12	Yes

The total concentration (facility predicted + background) is below the National Ambient Air Quality Standard for each pollutant.

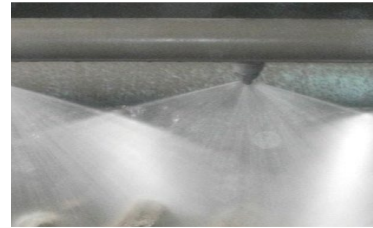
Onsite Dust Control



Dust control plan to be submitted prior to operation



Addresses onsite truck traffic, storage piles, and process equipment



Crusher, screens, and conveyors equipped with a water spray system



Onsite truck traffic dust is controlled by water trucks

Draft Synthetic Minor Air Construction Permit

State and Federal Regulations are established to be protective of the environment and public health

Recordkeeping, reporting and/or testing requirements to demonstrate compliance

Restricts emissions to less than 250.0 tons per year (tpy) of PM and less than 100.0 tpy of PM₁₀ to avoid major source thresholds

Next Steps In BAQ Process



Public comment period ends on August 23, 2024



Make a final decision and provide a written response to comments



30-day period from final decision date to appeal the permit decision to the ALC



SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

Get in touch

Mareesa Singleton// Engineering Associate

Mareesa.singleton@des.sc.gov

803.898.4113

des.sc.gov

Steve McCaslin// Air Permitting Director

Steve.mccaslin@des.sc.gov

803.898.3839

des.sc.gov

@SouthCarolinaDES



SCDES Staff



Bureau of Land & Waste Management Mining & Reclamation Section

Marty Lindler Division Director

Jeremy Eddy, PG Program Manager

Kaylin Joye Compliance Manager



Bureau of Air Quality Air Construction Permitting Section

Steve McCaslin Division Director

Alyson Hayes Program Manager

Mareesa Singleton Permit Writer



Bureau of Water Industrial Wastewater Permitting Section

Shawn Clarke, PE Division Director

Crystal Rippy Program Manager

Brett Caswell Engineer Associate



Bureau of Regional & Laboratory Services Midlands/Aiken Office

Travis Fuss Area Director

Gregg O'Quinn Program Manager

Alan Risa Team Lead (Air/Land)

Public Hearing

- No questions will be answered during the public hearing.
- Comments should be less than 3 minutes for individuals or 5 minutes for officials/groups.
- Be respectful to speakers.
- Do not interrupt others or ask others to respond to your comments.

More information on this project may be found at des.sc.gov/LuckStoneEdgefield

How to Provide Comments:



Recorded comments at
tonight's public hearing



Email Mining & Reclamation: Jeremy.Eddy@des.sc.gov
Air Permitting: Mareesa.Singleton@des.sc.gov



By US Mail: 2600 Bull St. Columbia, S.C. 29201



The ePermitting Portal
<https://scdhec.gov/publicnotice>

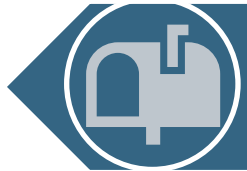
How to Provide Comments:



Recorded comments at
tonight's public hearing



Email Mining & Reclamation: Jeremy.Eddy@des.sc.gov
Air Permitting: Mareesa.Singleton@des.sc.gov



By US Mail: 2600 Bull St. Columbia, S.C. 29201



The ePermitting Portal
<https://scdhec.gov/publicnotice>

Public Comments Accepted Until End of Day August 23, 2024