



SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

Public Meeting/ Public Hearing

Cherokee Quarry

September 18, 2025





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**ENVIRONMENTAL
SERVICES**

Air Quality

Land & Waste Management

Coastal Resources

Water

Regional & Laboratory Services

Science • Service • Sustainability





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Tonight's Public Meeting/Hearing

- Share information on the proposed application for the Cherokee 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/LuckStoneCherokee



Agenda

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

Mining Presentation

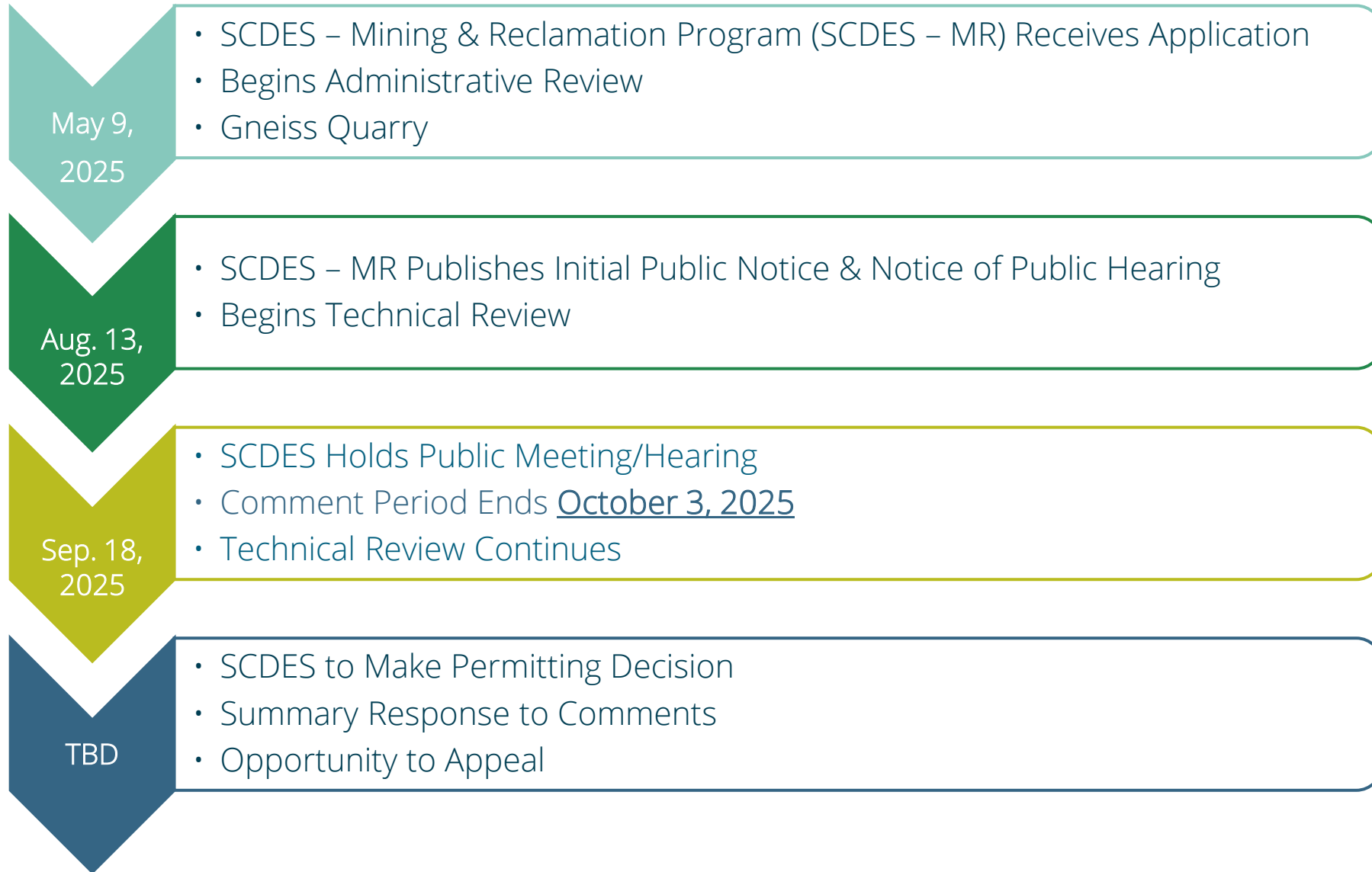


Mining Topics

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

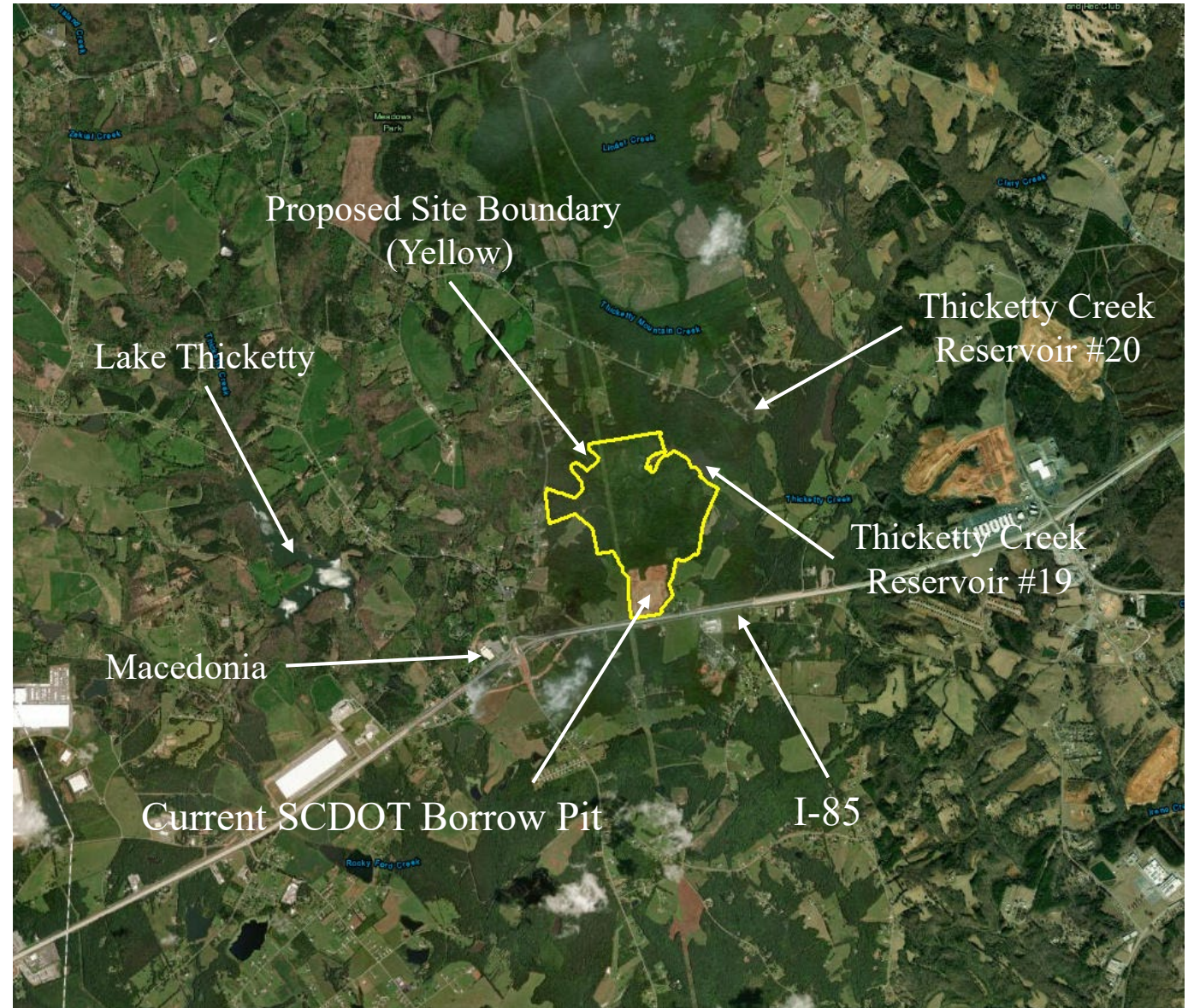


T i m e l i n e



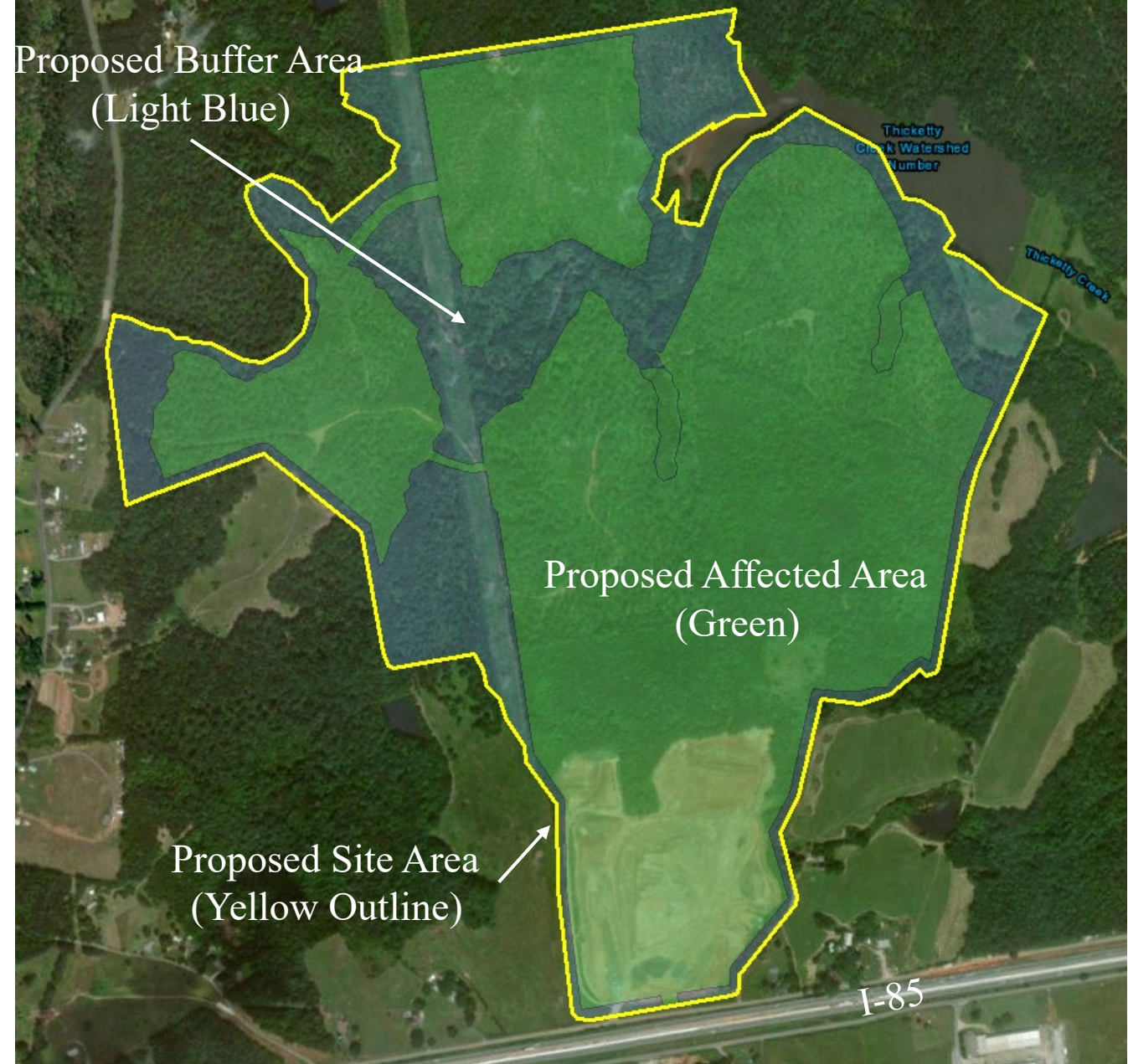
Site History

- TMS#: 045-00-00-053.000; 027-00-00-035.000
- Total Area: 347.6ac
- Current Land Use:
 - SCDOT Borrow Pit - Approximately 47.75ac
 - Undeveloped
- Parcels Purchase Agreement



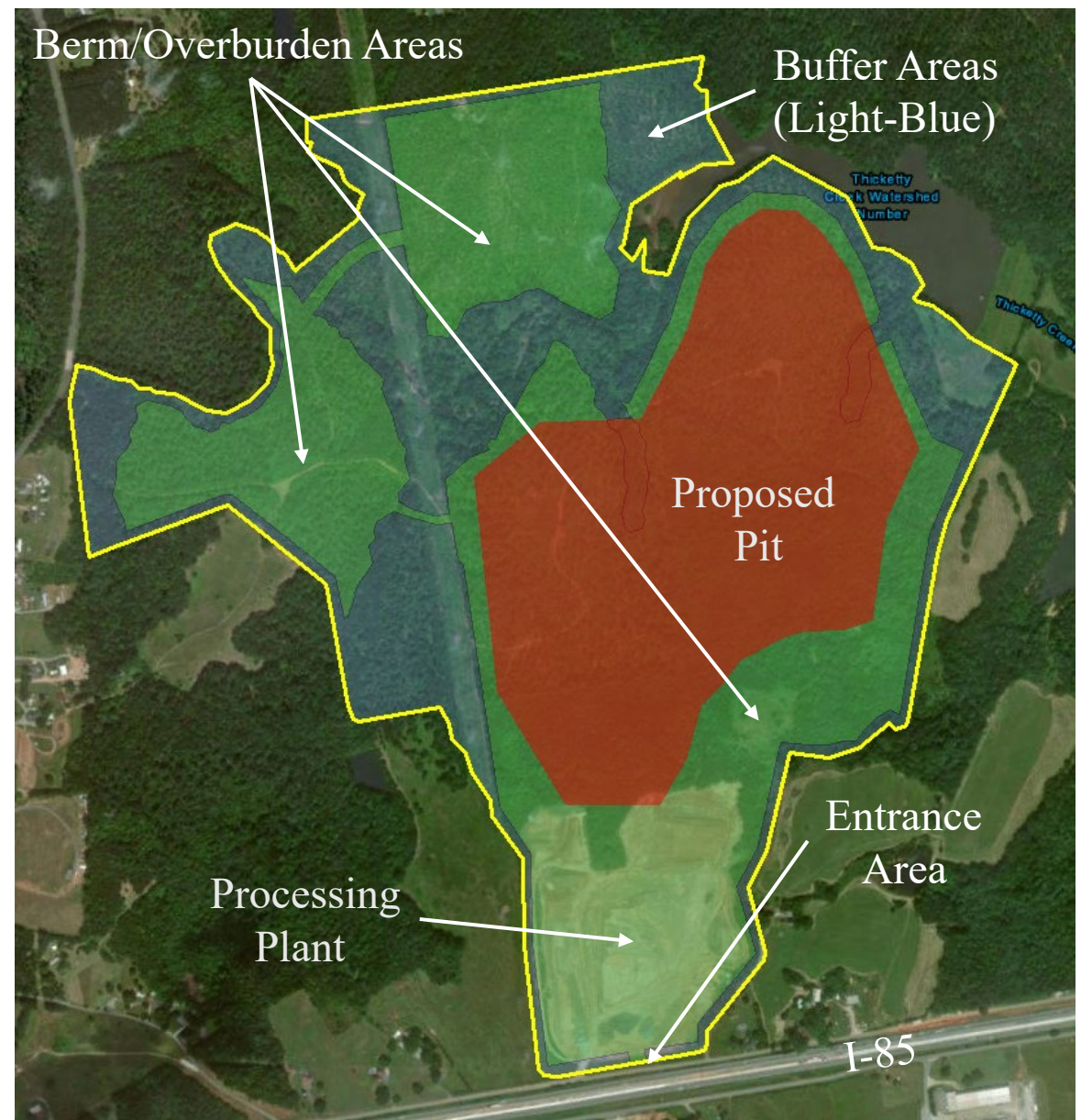
Proposed Site

- Total Area: 347.6ac
- Affected Area: 253.3ac
- Buffer: 94.3ac
- Future Reserves: 0.0ac



Proposed Permitted Area

- Total Area: 347.6ac
- Affected Area: 253.3ac
- Buffer: 94.3ac
- Future Reserves: 0.0ac



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



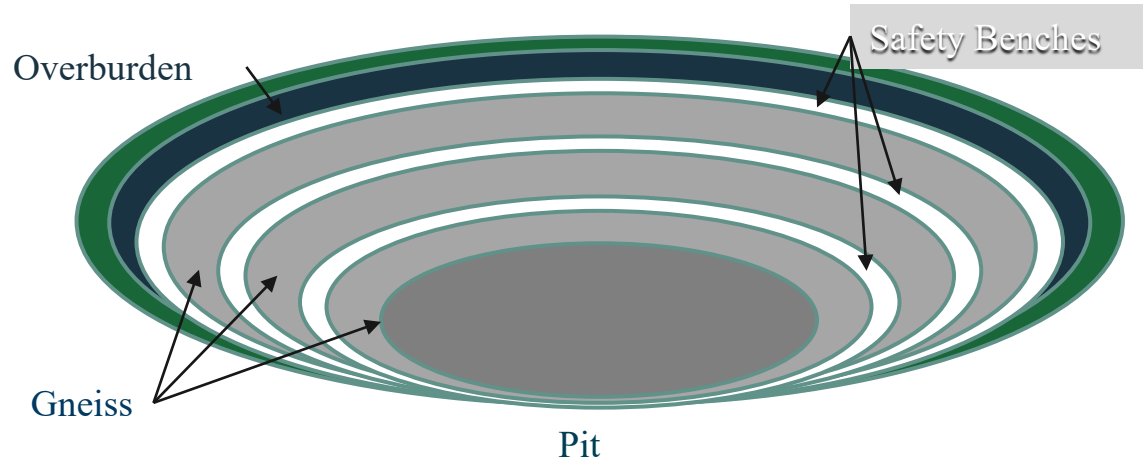
Water Truck



Check Dams

Proposed Mining Process

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



Reclaimed Overburden Stockpile



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 pond or lake 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
 - 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

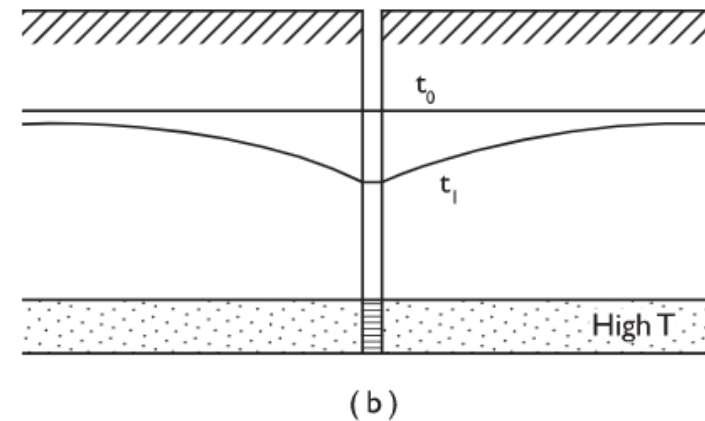
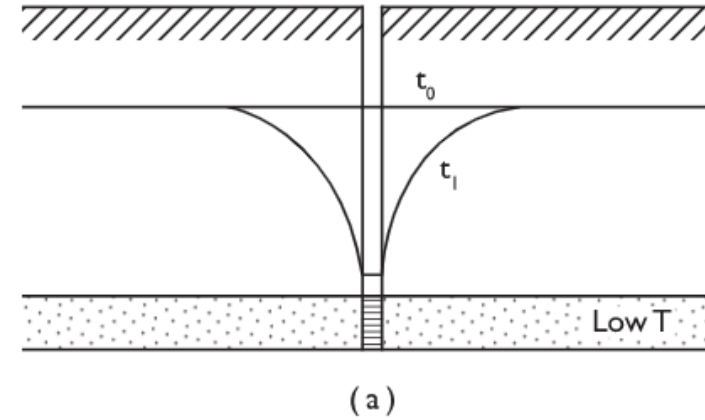
Blasting

- Typically, 2-4 times per month
- *“...a safe particle velocity maximum of 2.0in/sec is recommended for all houses.”*
 - U.S. Bureau of Mines
- SCDES limits maximum velocity to 1.0in/sec



Dewatering

- Maximum Depth: 400ft
- Primary Dewatering Layer: Gneiss



Other Concerns

- Truck Traffic
 - SC DOT District #3: Jason Johnston (803) 377-4155
 - SC Public Service Commission District #5: Headen B. Thomas – (803) 896-5100
 - Cherokee County Public Works: Jackie Wyatt– (864) 487-2536
- Property Value/Zoning
 - Cherokee County Planning & Development Services: Dale Gibert– (864) 487-2561
 - City of Gaffney Planning & Zoning Department: (864) 487-8500

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.
- BLWM's decision will be posted on the webpage for this site
- Final decision date begins 30-day appeal period.



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Get in touch

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Air Permitting Presentation





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

September 18, 2025

Project Overview

Gneiss Processing Plant

- Crushers
- Screens
- Conveyors

Additional Sources of Dust

- Plant Haul Roads
- Customer Haul Roads
- Storage Piles

Processing Plant Example



<https://www.metso.com/aggregates/solutions/quarries/>

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

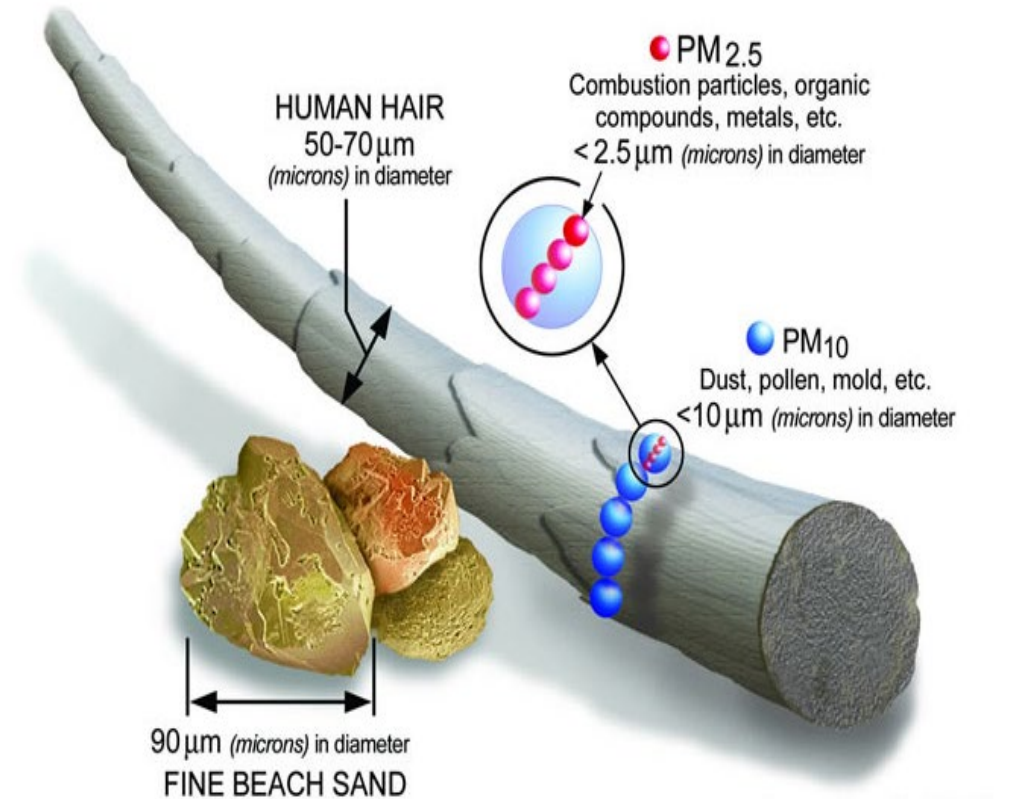
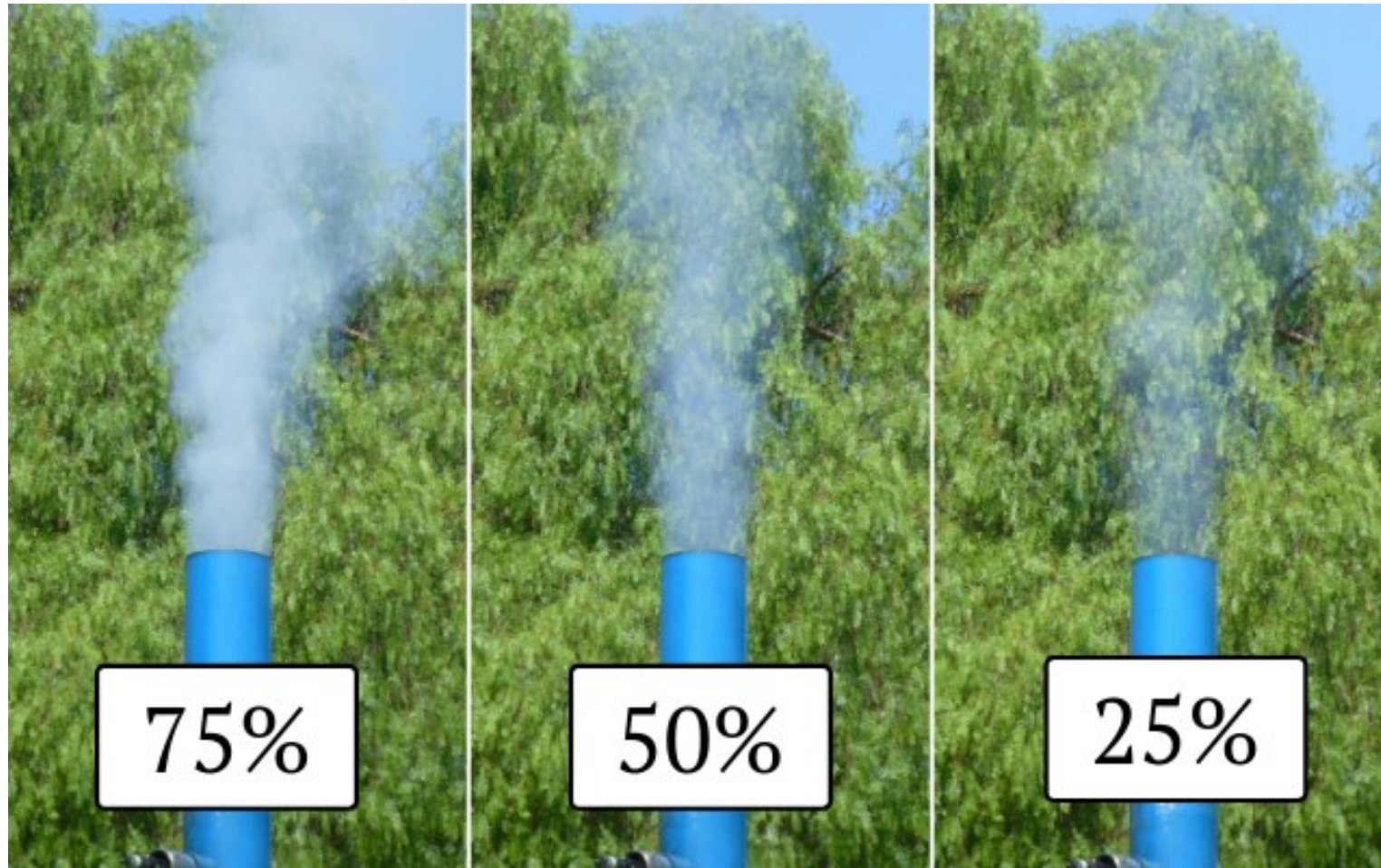


Image courtesy of the U.S. EPA

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)

Simulated Opacities Example



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	72.2	35	107	150	Yes

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

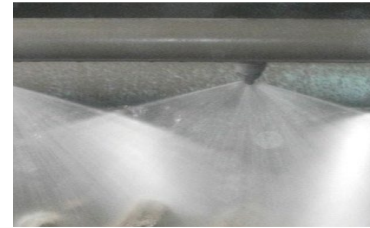
Onsite Dust Control



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

Process Emissions

- PM, PM₁₀, PM_{2.5} are the regulated pollutants for the process equipment
- Crusher, Screen, and Conveyors produce these dust emissions
- Process emissions are calculated using EPA approved emission factors from AP-42
- All process equipment is required to be controlled by wet suppression to comply with State and Federally enforceable regulations
- Fugitive Dust Control Plan requires O&M checks, plan for material spillage, as well as a plan for opacity problems.

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 October 3, 2025



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

How to Provide Comments



Recorded comments at
tonight's public hearing



Email

AirPNComments@des.sc.gov



By US Mail:

SCDES Bureau of Air Quality,
2600 Bull St
Columbia, SC 29201



ePermitting Portal
"Luck Stone"

Written Comments may be submitted until Friday, October 3, 2025

Submitting Public Comments



Comments can be submitted through October 3, 2025, via web at
<https://des.sc.gov/community/community-engagement/environmental-public-notice>



Search “Luck Stone” under “Site Name Field”

<https://des.sc.gov/community/community-engagement/environmental-public-notices>



AGENCY LISTINGONLINE SERVICES



ProgramsCommunityBusinessPermits & RegulationsData & ToolsAbout SCDSES

Environmental Public Notices

Home > Community > Community Engagement > Environmental Public Notices

Are you interested in attending an upcoming public hearing or meeting about a permit application under consideration by SCDDES staff? To find public meeting dates and details, simply search our interactive public notice directory. You can [search by county](#), project name, or SCDDES program.

You can also use our [interactive mapping application](#) to learn about public notices. Simply select the map, use your current location, or enter an address to find information about public notices near you or your area of interest.

SEARCH BY GIS LOCATION

SEE LATEST PUBLIC NOTICES

Please note: All permit applications for activities within 401 Water Quality Certification, Air, Agriculture, Construction in Navigable Waters, Groundwater Withdrawal, Mining, Solid Waste, Stormwater, BCM's Critical Areas, Coastal Zone Consistency-Stormwater and Wastewater-NPDES, General NPDES Permits, and ND Permits will be placed on public notice at the following website: <https://epermweb.dhec.sc.gov/ncore/external/publicnotice/search>.

Activities related to BCM's Coastal Zone Consistency requests for program areas other than Stormwater will continue to be placed on public notice on this site until further notice.

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Site Name Search

Public Notice Search

[Home](#)

County Description: (All), Program Area: (All)

Type	Reference Number(s)	Site	Contact Name	County Coverage
		luck stone		
Public Notice - Draft Permit, Public Meeting and Public Hearing	Submission Number: PKG-0000576 Permit Number: CP-50000326 v1.0	Luck Stone Corporation - Luck Cherokee 297 Old Post Road Gaffney, SC 29341		Cherokee

Add a Comment

Site	Contact Name	County Coverage	Start Date	End Date	Program Area	
luck stone						
Luck Stone Corporation - Luck Cherokee 297 Old Post Road Gaffney, SC 29341 Cherokee 08/13/2025 10/03/2025 Air View / Submit Comment						



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Bureau of Water
Water Facilities Permitting Division

Kelly Whitlock Division Director

Crystal Rippy Program Manager

Brett Caswell Engineer Associate



Bureau of Regional & Laboratory Services
Greenville-Spartanburg Office

Betsy Seals Program Manager

Georgia McCall Team Lead (Water)

Johnny Hall 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/LuckStoneCherokee

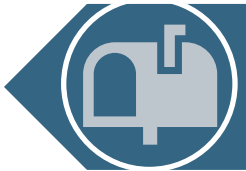
How to Provide Comments:



Recorded comments at
tonight's public hearing



Email Mining & Reclamation: Colby.Myers@des.sc.gov



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



des.sc.gov/LuckStoneCherokee

Public Comments Accepted Until End of Day October 3, 2025