



February 25, 2025

CERTIFIED LETTER
RETURN RECEIPT REQUESTED

Heidelberg Materials Southeast Agg., LLC
Attn: Kaylee Jones
7 West Point Blvd.
Mauldin, SC 29622
Kaylee.jones@heidelbergmaterials.com

Re: Approval of Application to Modify a Mine Permit
Modification of Individual Mine Operating Permit (Mod 24-1)
Mine Permit I-000431 | Pelham Quarry | Spartanburg County

Dear Mrs. Jones:

The South Carolina Department of Environmental Services (SCDES) has approved the application to modify coverage under the Individual Mine Operating Permit I-000431. The modification request was to add land to the permitted acreage, change land-use within the permitted acreage, and update the overall site acreages per a 2023 land survey conducted by the operator. SCDES is in receipt of the required financial assurance of \$747,424.00. Therefore, the Individual Mine Operating Permit is being modified as of the date of this letter. Enclosed are the permit document, reclamation plan, and approved mine map(s) for your records.

To stay in compliance with the Mining Act and Regulations, the Annual Reclamation Report and Annual Operating Fees must be submitted each year until the Individual Mine Operating Permit is terminated by SCDES.

For general permit questions, Kaylin Joye is the compliance manager and inspector for this area; she can be reached at (803) 898-1367 and Kaylin.Joye@des.sc.gov.

Respectfully,

A handwritten signature in blue ink that reads "Jeremy E. Eddy".

Jeremy E. Eddy, P.G.
Manager, Mining & Reclamation Program

Cc: Marty Lindler, Kaylin Joye, Brett Caswell, Jeffrey Phillips (MSHA), Cole Alverson (Spartanburg County),
Encl: Permit document, Reclamation Plan, Maps



SC DEPARTMENT *of*
**ENVIRONMENTAL
SERVICES**

**INDIVIDUAL MINE
OPERATING PERMIT**

**Pelham Quarry
Heidelberg Materials Southeast Agg., LLC**

Heidelberg Materials Southeast Agg., LLC, a corporation, has been granted a Mine Operating Permit, Mine Permit Number I-000431, to operate the Pelham Quarry in accordance with this Permit, the approved Reclamation Plan, the S.C. Mining Act (S.C. Code Sections 48-20-10 *et seq.*, 1976), and Regulations 89-10 *et seq.* The operator shall conduct this operation as represented in documents submitted to support the issuance of this permit.

JEREMY E. EDDY, P.G.

MANAGER - MINING AND RECLAMATION PROGRAM
DIVISION OF MINING AND SOLID WASTE MANAGEMENT

PERMIT NUMBER: I-000431
ORIGINALLY ISSUED: October 19, 1979
MODIFIED: February 25, 2025



Part I: GENERAL INFORMATION

In accordance with Section 48-20-60 of the South Carolina Mining Act, this Mine Operating Permit will remain valid unless it terminates as set forth in R.89-270 or is revoked in accordance with Section 48-20-160 and R.89-280. The anticipated mining completion date is shown on the *Schedule for Conservation and Reclamation Practices* in the *Reclamation Plan*.

The approved *Permit Application, Reclamation Plan*, and all supplemental information referenced herein, are an integral part of this permit. *Land Entry Agreements and Mine Maps* as identified in Part II and Part V, respectively, are also a part of this permit.

CONTACT INFORMATION:

Home Office Address: Heidelberg Materials Southeast Agg., LLC
7 West Point Blvd
Mauldin, SC 29662

Local Office Address: Heidelberg Materials Southeast Agg., LLC
Attn: Dr. Kaylee Jones
7 West Point Blvd
Mauldin, SC 29662

Address for Official Mail: Same as Local Office Address

Company personnel and title to be the contact for official business and correspondence [South Carolina Department of Environmental Services (SCDES) should be notified in writing immediately of any change in contact, address, telephone or e-mail]:

Dr. Kaylee Jones
Environmental Operations

Telephone: (864) 308-7850
Email: Kaylee.Jones@Heidelbergmaterials.com

LOCATION: The mine is located on the Pelham, SC U.S.G.S. 7.5' Topographic Map. The approximate geographic coordinates for the site are:

Latitude: 34.8656

Longitude: -82.1922

LOCATION DESCRIPTION: The operation is located in Spartanburg County, approximately 2 mile(s) northeast of Pelham, S.C. Specifically, the site is located at the intersection of Brockman-McClimon Road and E. Howell Road.

Part II: PERMITTED LAND

This permit allows Heidelberg Materials Southeast Agg., LLC, also referred to as the operator, to conduct mining operations within the permitted land as defined through the *Land Entry Agreement* submitted as part of the application. Permitted land as defined by Section 48-20-40(18) is "the affected land in addition to (a) lands identified for future mining to become affected land; (b) and undisturbed or buffer area that is or may become adjacent to the affected land." Therefore, this permit grants the operator the right to conduct active mining operations within the specified affected land, delineate land for future mine areas as future reserves, and to establish undisturbed buffer zones to mitigate any adverse effects to the surrounding environment.

AFFECTED LAND: 101.6 acres of land are to be affected by Heidelberg Materials Southeast Agg., LLC under the current mine plan; 101.6 of the affected acres are currently bonded. The affected acres are derived from the operator's response in the *Application for a Mine Operating Permit* and are shown on the approved mine map(s).

FUTURE RESERVES: 0.0 acres are identified as future reserves and are specified on the mine site map. Prior to the initiation of activity in future reserves, the operator shall submit detailed mine and reclamation plans to SCDES for approval.

BUFFER AREAS: 30.6 acres are identified as buffer area, setbacks, or areas that will not be disturbed beyond the pre-mine natural state. These buffer areas are identified on the mine site map. Acres designated as buffer areas are not bonded under the reclamation bond. Any activity within the buffer areas (e.g. removal of timber) shall require **prior** notification and approval by SCDES.

TOTAL PERMITTED AREA: 132.2 acres as submitted on the *Land Entry Agreement(s)*.

LAND ENTRY AGREEMENTS: The operator is required to furnish and maintain up-to-date *Land Entry Agreements* on all lands covered under this permit. Any change in ownership on any portion of land covered by this permit, the operator is responsible for furnishing the appropriate and completed *Land Entry Agreements* (Forms MR-600 or MR-700) to SCDES within 30 days of the change of ownership.

Land Owner(s) as Listed on *Land Entry Agreement(s)*:

Tax Map Parcel Number	Landowner
5-34-00-016.00, 5-34-00-016.00, 5-34-00-020.11, 5-34-00-018.00, 5-34-00-020.01, 5-34-00-020.02, 5-34-00-020.06, 5-34-00-022.04, 5-34-00-023.00, 5-34-00-024.02, 5-34-00-024.03	Heidelberg Materials Southeast Agg., LLC

Total acres of the contiguous tract(s) of land for which the permit is granted:

OWNED 132.2 LEASED 0.0 TOTAL 120.9

Part III: FINANCIAL ASSURANCE FOR RECLAMATION

The financial assurance for reclamation is based upon the total affected acres. Pursuant to Section 48-20-70 and R.89-200, the financial assurance for this mining permit is set at **\$747,424.00**. The financial assurance shall remain in force and continuous throughout the life of the mining operation and shall only be released, partially or in full, back to the operator after the operator has completed reclamation in accordance with the approved *Reclamation Plan* and the minimum standards in R.89-330.

Part IV: MINE OPERATIONS

Heidelberg Materials Southeast Agg., LLC is permitted to mine granite at the Pelham Quarry. The maximum depth to the pit floor shall not exceed 480 feet mean sea level (to an approximate elevation of 350 feet below ground surface as measured from the lowest ground surface elevation). Mining will take place on tracts of land owned by the referenced operator. These tracts of land are identified in the submitted *Land Entry Agreements* (LEAs).

MINE/PIT CHARACTERIZATION:

The granite will be excavated, processed, and stockpiled on site. Ground clearing will be accomplished by bull dozers, wheel loaders, and hydraulic excavators. Removed overburden will be placed in permanent storage areas at locations designated on the mine map. The exposed granite will be drilled, explosives loaded, and blasted to fragment stone into manageable sizes to facilitate loading in haul trucks and crushing by the primary crusher. Stone passing through the primary crusher will be transported to the processing plant by conveyor for further processing.

PROCESSING PLANT LOCATED ON MINE SITE:

The processing plant will consist of primary and secondary crushers, screens, conveyors, and loading and hauling machines. Waste screenings and other fines from crushing, washing, and screening the crushed stone will be stockpiled around the plant site or placed in overburden storage areas.

MINE DEWATERING:

Due to groundwater seepage from natural fractures/joints in the host rock, quarry dewatering will be necessary when the pit floor extends below the water table. Additionally, where feasible, stormwater runoff shall be diverted into the pit, collected into the sump, and discharged in the same manner as groundwater. Any accumulation of groundwater and stormwater shall be pumped into a sediment basin prior to discharge. Water discharged from the mine to a receiving stream must be discharged through an outfall regulated by an NPDES permit.

If an operator receives a complaint concerning adverse impacts to neighboring wells, the operator is to notify SCDES's Manager of the Mining and Reclamation Section, Columbia, SC, within 48 hours. After investigation, if SCDES determines dewatering activities at the mine are affecting a drinking water well or water supply well, the operator shall be responsible for repairing, deepening, or re-drilling such wells. Until that permanent water supply is re-established, the operator shall supply the owner with a temporary water supply (e.g., bottled water for drinking, provisions for laundry).

Active pumping and discharge of water shall cease if the dewatering discharge causes flooding conditions to property downstream of the mine site.

BLASTING:

Blasting is permitted at this site. Blasting activities shall be conducted in accordance with R.89-150.

Pursuant to R.89-150A., the operator shall conduct a pre-blast survey on inhabited structures within one-half mile of any blasting, prior to the commencement of any blasting activities. The survey shall be completed by a third-party consultant and a copy of the report sent to SCDES, the operator, and the landowner. Upon review and approval, SCDES will then grant permission to begin blasting activities.

Pursuant to R.89-150J., the operator shall report any suspected incident of flyrock outside of the permitted area resulting from blasting operations. Pursuant to R.89-150E., the operator shall report if the peak particle velocity exceeds one (1.0) inch per second at the immediate location of any dwelling not owned by the operator (or where a waiver of damage has been submitted to SCDES). These incidents shall be reported to SCDES within 24 hours of the blast, and a written report shall be submitted to SCDES within five (5) business days.

Pursuant to R.89-150H., the operator shall maintain a minimum distance of 250 feet from contiguous property boundaries when conducting blasting. Additionally, pursuant to R.89-150I., the operator shall maintain a minimum distance as shown on the approved mine map between the nearest point of blasting and any structures not owned by the operator (at the time of the completed application date of: February 29, 2024) or where a waiver of damage has been submitted to SCDES.

See Part X: *Additional Terms and Conditions #2.*

NOISE MONITORING AND CONTROL:

The operator shall use Best Management Practices (BMPs) to minimize noise from the mine site. These noise BMPs shall include, at a minimum, proper maintenance of mufflers on equipment (trucks, trackhoes, pumps, etc.) and consideration of special buffering measures if planning to operate equipment during nighttime hours.

OTHER STATE OR FEDERAL PERMITS:

The operator must obtain, maintain, and update, as appropriate, all necessary State and Federal permits in order to construct and operate the mine.

Part V: MAPS

The mine site maps were prepared by Heidelberg Materials Southeast Agg., LLC. These maps are further identified with the following SCDES map numbers and are part of the operating permit:

SM-0431-1V3 Mine Plan Map Dated: December 9, 2024

SM-0431-2V1 Mine Plan with Aerial Imagery Map Dated: December 9, 2024

The reclamation map was prepared by Heidelberg Materials Southeast Agg., LLC. This map is further identified with the following SCDES map number and is part of the operating permit:

RM-0431-1V3 Reclamation Plan Map Dated: February 10, 2024

Part VI: PROTECTION OF NATURAL RESOURCES

MINE SITE AND SURROUNDING AREA:

The immediate area around this site is residential, agricultural and commercial property. The topography of this area is slightly variable (i.e., mostly flat), with surface elevation ranging from 830 - 900 ft. MSL. Several residential neighborhoods are located to the north, west, and south of the mine site. Commercial properties are located to the south and southeast.

PUBLIC SAFETY:

A gate shall be installed at the entrance to the mine site and kept locked during inactive periods. *Warning* and/or *Danger* signs shall be posted around the perimeter of the property. The quarry perimeter is fenced for public safety, and the operator is responsible for maintaining the fence throughout the life of the mine.

Operator shall use BMPs to prevent accumulation of sediment/soil on public roads carried by trucks and other vehicles exiting the mine site; any accumulations shall be removed by the operator on a daily basis or more frequently if needed. To reduce the potential of trackout on public roads, the operator shall construct a paved road at the entrance that extends the width of the entrance road and a minimum of one hundred (100) feet in length.

The operator shall establish a protected area or establish procedures to minimize fuel spillage or incidental spillage of other petroleum products during storage, refueling of equipment or in the performance of routine maintenance on equipment. Contaminated materials resulting from contact with petroleum products shall be removed from the site and disposed of properly to prevent contamination to ground and surface water resources.

To maintain stable mine walls, the unconsolidated saprolite shall be sloped to a stable configuration no steeper than 2H:1V during active mining. Per the Mine Safety Health Administration (MSHA) requirements, the hard rock pit walls shall be benched to maintain stability and provide safety.

PUBLICLY-OWNED PARKS, FORESTS, OR RECREATION AREAS:

There are no publicly owned parks, forests, or recreation areas near this mine site.

WETLANDS AND SURFACE WATER AREAS:

Vines Creek tributary and associated wetlands are located to the northeast of the site and run north to southeast. Vines Creek flows through the northernmost area of the site and through an unnamed pond located on-site. The operator shall maintain a minimum 50ft. undisturbed buffer between all land disturbance activity and any US Army Corps of Engineers' jurisdictional wetlands. This buffer shall be permanently flagged prior to the initiation of any mine activity. The flags shall be maintained throughout the active mine operation of the site. The operator is allowed to discharge accumulated stormwater—that meets NPDES permit limits—into wetlands through a regulated NPDES outfall.

The operator shall comply with the NPDES General Permit for Non-metallic Mineral Mining and Stormwater Pollution Prevention Plan developed for the mine.

SIGNIFICANT CULTURAL OR HISTORICAL SITES:

No significant cultural or historical sites have been identified. If archaeological materials are encountered prior to or during the construction of mine facilities or during mining, the S.C. Department of Archives and History and SCDES should be notified immediately. Archaeological materials consist of any items, fifty years or older, which were made or used by humans. These items include, but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, oyster shell, worked wood, bone and stone, metal and glass objects, human skeletal remains, and concentrations of charcoal and stones below the ground surface. These materials may be present on the ground surface and/or under the surface of the ground.

WILDLIFE:

Common wildlife typical to this area can be found in and around this site; there are no threatened or endangered species believed to inhabit this area.

VISUAL SCREEN:

To appropriately screen the operation from view, the operator shall maintain a minimum 50ft. undisturbed buffer between mining activity and all property lines, as shown on the mine map. A vegetated earthen berm or brush barrier shall be constructed and maintained on the mine side of this undisturbed buffer where vegetative screening is inadequate or where indicated on the mine map.

ACID WATER GENERATION:

Acid water is not anticipated to be generated from the oxidation of existing minerals currently found on this site.

AIR QUALITY:

The mine operator will use appropriate measures (e.g. water truck, dust suppressants) to control fugitive dust created by moving equipment along haul roads. The operator, where feasible, shall establish vegetation in non-active mine areas barren of vegetation to stabilize the soil and reduce potential for wind erosion and dust emissions.

Part VII: STANDARD CONDITIONS OF MINE OPERATING PERMIT

SURVEY MONUMENTS:

In accordance to R.89-130, the operator shall install and maintain the two required permanent survey monuments, or control points, within the permitted area as shown on the mine site map. At the discretion of SCDES, the operator may be required to mark the area to be affected with flagging or other appropriate measures.

RIGHT OF ENTRY:

Pursuant to Section 48-20-130 and R.89-240, the operator shall grant SCDES and/or duly appointed representatives access to the permitted area for inspection to determine whether the operator has complied with the reclamation plan, the requirements of this chapter, rules and regulations promulgated hereunder, and any terms and conditions of this permit.

RECORDS RETENTION:

All records are to be maintained through additional terms and conditions of this permit or by regulations. Records shall be kept on site or at the office identified for receipt of official mail and open for inspection during normal business hours. The records shall be maintained for a minimum of three (3) years or as specified by SCDES. The operator shall furnish copies of the records upon request to SCDES.

PERMIT MODIFICATIONS:

Pursuant to Section 48-20-80, the operator may modify the permit and/or *Reclamation Plan* upon approval by SCDES. Requests for permit and/or *Reclamation Plan* modifications may be made to SCDES on Form MR-1300. The operator shall submit any requested supporting data for consideration during SCDES's evaluation of the modification request. If a modification request is determined to be substantial by SCDES, the modification request will be public noticed pursuant to R.89-100 and a modification fee will be required as specified in R.89-340. If SCDES determines activities proposed under the *Reclamation Plan* and other terms and conditions of the permit are failing

to achieve the purpose and requirements of the S.C. Mining Act and Regulations, SCDES shall notify the operator of its intentions to modify the permit and/or *Reclamation Plan* pursuant to Section 48-20-150.

TRANSFER OF PERMIT:

Pursuant to Section 48-20-70, this permit may be transferred to another responsible party. The transfer of the permit must be conducted in accordance with R.89-230. The transferor of the permit will remain liable for all reclamation obligations until all required documents, plans, and the replacement reclamation bond have been submitted and approved by SCDES. The transfer will be considered complete when all parties have received notification by certified letters of the approval of the transfer by SCDES.

DURATION OF MINE OPERATING PERMIT:

In accordance with Section 48-20-60, this Mine Operating Permit will remain valid unless this permit terminates as set forth in R.89-270 or is revoked in accordance with Section 48-20-160 and R.89-280. The proposed anticipated mining completion date is shown on the *Schedule for Conservation and Reclamation Practices* in the *Reclamation Plan*.

Pursuant to R.89-80(B), the operator shall conduct reclamation simultaneously with mining whenever feasible. Reclamation shall be initiated at the earliest practicable time, but no later than 180 days following termination of mining of any segment of the mine, and shall be completed within two years after completion or termination of mining on any segment of the mine.

Part VIII: ENFORCEMENT ACTIONS

Pursuant to Section 48-20-30 of the S.C. Mining Act, "SCDES has ultimate authority, subject to the appeal provisions of this chapter, over all mining, as defined in this chapter, and the provisions of the chapter regulating and controlling such activity." This allows SCDES to assist, cooperate with, or supersede other State agencies in taking enforcement action on violations of the State Regulations or violations of the S.C. Mining Act to ensure the purposes of this Act are enforced.

The operator shall comply at all times with all conditions of this mine operating permit. Non-compliance with this mining permit, statute, or regulations could lead to permit revocation and bond forfeiture pursuant to Sections 48-20-160 and 48-20-170 or other enforcement action allowed by law.

Compliance with the Mine Operating Permit requires the operator to conduct the mining operation as described in the approved *Application for a Mine Operating Permit*. Variance from the *Application for a Mine Operating Permit*, this permit, statute or regulation, without first receiving SCDES approval, shall be deemed non-compliance with the permit.

An operator or official representative of the mine operator who willfully violates the provisions of the S.C. Mining Act, rules and regulations, or willfully misrepresents any fact in any action taken pursuant to this chapter or willfully gives false information in any application or report required by this chapter shall be deemed guilty of a misdemeanor and, upon conviction, shall be fined not less than one hundred dollars nor more than one thousand dollars for each offense. Each day of continued violation after written notification shall be considered a separate offense.

The operator is responsible for all mining activity on the permitted mine site.

Part IX: REPORTS

ANNUAL RECLAMATION REPORTS:

The operator shall comply with Section 48-20-120 and Regulation 89-210 and submit an *Annual Reclamation Report* on Form MR-1100 as supplied by SCDES. The form for the report will be made available to the operator electronically. The operator should receive access to the report form from SCDES by July 1 of each year; however, the operator is ultimately responsible for obtaining the *Annual Reclamation Report* form and is not excused from penalty fees for failure to submit the report on time.

The Annual Operating Fee is a part of the *Annual Reclamation Report*. Failure to submit a complete *Annual Reclamation Report* and fee, in accordance with Section 48-20-120 and R.89-340, will result in a late penalty payment. The *Annual Reclamation Report* and Annual Operating Fee are required if there is any permitted land not fully reclaimed and released by SCDES by June 30 of *each* year.

SPECIAL REPORTS:

SCDES may at any time request information, data, or explanations from the operator as to conditions relating to the permitted mine site. Such requests from SCDES shall be made in writing to the operator with an appropriate time frame stated for the submittal of the requested information to SCDES. The operator must produce the information requested within the timeframe specified by SCDES.

Part X: ADDITIONAL TERMS AND CONDITIONS

1. Temporary or permanent placement of refuse and debris (e.g., concrete, brick, asphalt) from off-site locations is prohibited without approval by SCDES. Topsoil fill approved by SCDES may be brought in from off-site sources only for the purposes of mine land reclamation. The operator has received a Construction and Demolition Debris Recycling certificate from SCDES's Solid Waste Program for this site, and shall conduct operations in accordance with its terms & conditions.

2. Seismograph monitoring must be conducted by the operator at a minimum of two locations: 191 E. Howell Road, and on Vine Court at the closest structures not owned by the company.

APPENDIX A

MODIFICATIONS TO MINE PERMIT I-000431

NUMBER	DATE	DESCRIPTION OF MODIFICATION (PA= Permitted Acreage; AA= Affected, Bonded Acreage; FR= Reserves Acreage, B= Buffer Acreage)
Issued	10/19/79	PA = 83.4ac., AA = 67.5ac., FR = 0.0ac., B = 15.9ac. Permit issued. Operator Davison Sand and Gravel Company
99-1	6/30/99	PA = 83.4ac., AA = 67.5ac., FR = 0.0ac., B = 51.8ac. Name Change from Davison Sand and Gravel Company to Pioneer Mid-Atlantic, Inc.
00-1	9/29/00	PA = 119.3ac., AA = 67.5ac., FR = 0.0ac., B = 51.8ac. Add 35.9ac of undisturbed buffer as noted in MR-600 and attachments; Increase BA from 15.9ac to 51.8ac; Increase PA from 83.4ac to 119.3 ac
24-2	4/26/24	PA = 119.3ac., AA = 70.8ac., FR = 0.0ac., B = 48.5ac. Reallocate 3.3ac of BA to AA for overburden storage area
24-1	02/25/25	PA = 132.2ac., AA = 101.6ac., FR = 0.0ac., B = 30.6ac. Relocated entrance and created OSA from buffer; readjusted acreages based on survey

MR-500 Reclamation Plan for an Individual Mine Operating Permit

Environmental Protection

Describe practices to protect adjacent resources such as roads, wildlife areas, woodland, cropland and others during mining and reclamation.

Sufficient buffers will be maintained between the quarry and adjacent resources to ensure these resources are protected during the life of the mine. Sediment and erosion control features and BMPs will be used to protect adjacent resources.

Describe proposed methods to limit significant adverse effects on adjacent surface water and groundwater resources.

Sufficient control, such as sediment and stormwater basins, silt fencing, diversion ditches and swales will be used to limit potential impacts to surface waters. Land disturbing activities will be kept to a minimum. All petroleum products will be maintained in secondary containment to minimize spillage. Any spill that occurs will be immediately cleaned up.

Describe proposed methods to limit significant adverse effects on known significant cultural or historic sites within the proposed permitted area.

here are no known cultural or historic sites within the proposed permitted area.

Describe method to prevent or eliminate conditions that could be hazardous to animal or fish life in or adjacent to the permitted area.

The use of stormwater and sediment basins will reduce the potential for sediment getting into the creek and thus adversely affecting wildlife. Limiting land disturbance activities and preservation of the creek buffers should minimize impacts on wildlife.

Describe how applicant will comply with State air quality and water quality standards as established by the South Carolina Department of Environmental Services.

Heidelberg Materials will comply with the Air Permit, GCM - 0660-0004. The permit requires control fugitive dust at the processing plant by use of wet suppression and use of water trucks to control dust from haul roads and stockpiles. Heidelberg Materials will comply with the NPDBS General Permit, SCG730062. Both stormwater and process water are routed through sediment/stormwater basins prior to discharge to provide adequate holding time for the sediment to settle.

Reclamation of Affected Area

State useful purpose(s) the affected land is being proposed for reclamation.

Lake or Pond
Woodlands
Grassland

Feasibility Documentation Attachment

[04-RECLAMATION PLAN.pdf - 11/20/2024 02:18 PM](#)

Comment

Post-mining use will be a mix of grasses and forest. Pit will become a lake. See reclamation plan.

Will the final maximum surface gradient (slope) in soil, sand, or other unconsolidated materials be steeper than 3 Horizontal : 1 Vertical (18 degrees or 33 percent)?

Yes

Surface gradients steeper than 3H:1V (18 degrees or 33 percent) may be required to submit geotechnical data and

studies to demonstrate that the steeper slopes will remain stable following final reclamation.

How will the final slopes in unconsolidated material be accomplished?

Limit of excavation will be sloped to 3:1 and vegetated. Overburden disposal areas will be sloped 3:1 and permanent vegetation planted once the final face has been prepared and graded.

If the slope will be by backfilling, demonstrate that

there is adequate material to accomplish the stated final gradient. If gradient is to be achieved by bringing in material from outside the permitted area, state the nature of the material and approximate quantities. If the gradient is to be achieved by grading, show that there is adequate area for grading to achieve gradient (i.e., adequate distance between the property line and edge of highwall).

Final slopes calculations or other supporting information attachment(s)

NONE PROVIDED

Comment

NONE PROVIDED

Describe the plan for revegetation or other surface treatment of affected area(s). The revegetation plan shall include but not be limited to the following: (a) planned soil test; (b) site preparation and fertilization; (c) seed or plant selection; (d) rate of seeding or amount of planting per acre; (e) maintenance.

Spring planting will be mixtures of Fescue, Bermuda, and Sericea. Fall planting will be a mixture of rye grain and Fescue. Additionally, areas may be identified for the planting of pine. Commercial lime and fertilizer will be used. Native grasses and vegetation will be planted.

Does the possibility exist for (a) acid rock drainage; (b) where the National Pollutant Discharge Elimination Systems (NPDES) Permit has discharge limitation parameters other than pH and Total Suspended Solids (TSS); (c) chemically treated tailings or stockpiles (excludes fertilizer or lime for revegetation purposes)?

No

Describe the methods to control contaminants and permanently dispose any mine waste. This includes any soil, rock (overburden), mineral, scrap, tailings, fines, slimes, or other material directly connected with the mining, cleaning, and preparation of mineral substances mined. It also includes all waste material deposited on or in the permit area from any source.

All scrap metal is recycled and disposed of off site. All tailings and mine wastes are diked from ponds, drained and disposed of in the overburden disposal areas.

Describe the method of reclaiming settling and/or sediment ponds.

The settling and sediment ponds will be drained, allowed to dry, re-contoured and vegetated with a mixture of grasses.

Describe the method of restoring or establishing stream channels, stream banks, and site drainage to a condition to minimize erosion, siltation, and other pollution.

No stream channels or creeks are to be disturbed during mining. Any drains established during mining and reclamation will be grass lined or rip-rap lined depending on the slope. Use of check dams in drainage ditches will be made to minimize the potential for erosion and off-site sedimentation.

What are the maintenance plans to insure that the reclamation practices established on the affected land will not deteriorate before released by the Department?

Reclaimed areas will be inspected on a regular basis and should any areas require maintenance it will be performed according to the vegetation plan. Reclaimed areas will be set aside to ensure they are not used in normal course of business to prevent the reclaimed areas being damaged prior to release.

For final reclamation, submit information about practices to provide for safety to persons and to adjoining property in all excavations. Identify areas of potential danger (vertical walls, unstable slopes, unstable surface on clay slimes, etc.) and provide appropriate safety provisions.

Final reclamation of the pit will include the installation of a 6-ft high barbed wire fence around the perimeter. Warning signs will be posted at regular intervals in the fence. Locked gates will be maintained at the mine entrance. Buffers present during mining will be maintained during reclamation.

What provisions will be taken to prevent noxious, odious, or foul pools of water from collecting and remaining on the mined area? For mines to be reclaimed as lakes or ponds, provide supporting information that a minimum water depth of four (4) feet on at least fifty percent (50%) of the pond surface area can be maintained.

The pit is to be reclaimed as a lake. It will be prevented from becoming noxious and foul by the regular inflow of stormwater and groundwater into the pit.

Identify any structures (e.g. buildings, roads) that are proposed to remain as part of final reclamation. Provide justification for leaving any structures.

The entrance road will remain for site access. Office, scales, shop, employee building, and fuel building will be removed unless specifically designated as part of future site use by post-mine owner.

Attach a copy of a map of the area (referred to as the RECLAMATION MAP) that shows the reclamation practices and conservation practices to be implemented. The following should be shown (A through P - see below):

[PELHAM ARO-2024.pdf - 11/20/2024 01:40 PM](#)

Comment

NONE PROVIDED

- A. The outline of the proposed final limits of the excavation during the number of years for which the permit is requested.
- B. The approximate final surface gradient(s) and contour(s) of the area to be reclaimed. This would include the sides and bottoms of mines reclaimed ponds and lakes.
- C. The outline of the tailings disposal area.
- D. The outline of disposal areas for spoil and refuse (exclusive of tailings ponds).
- E. The approximate location of the mean shore line of any impoundment or water body and inlet and/or outlet structures which will remain upon final reclamation.
- F. The approximate locations of access roads, haul roads, ramps or buildings which will remain upon final reclamation.
- G. The approximate locations of various vegetative treatments.
- H. The proposed locations of re-established streams, ditches or drainage channels to provide for site drainage.
- I. The proposed locations of diversions, terraces, silt fences, brush barriers or other Best Management Practices to be used for preventing or controlling erosion and off-site siltation.
- J. Proposed locations of the measures to provide safety to persons and adjoining property.
- K. Segments of the mine that can be mined and reclaimed as an ongoing basis.
- L. The boundaries of the permitted area.
- M. The boundaries of the affected area for the anticipated life of the mine.
- N. The boundaries of the 100-year floodplain, where appropriate.
- O. Identify sections of mine where the final surface gradient will be achieved by grading and/or backfilling.
- P. A legend showing the name of the applicant, the name of the proposed mine, the north arrow, the county, the scale, the date of preparation and the name and title of the person who prepared the map.

THE REQUIRED RECLAMATION MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT. RECLAMATION MAP SHOULD BE THE SAME SCALE USED FOR THE SITE MAP.

Schedule for Implementation of Conservation and Reclamation Practices

As stated in Section 48-20-90 of the S.C. Mining Act, reclamation activities, to the extent feasible, must be conducted simultaneously with mining operations. Identify which areas or segments of the mine are not feasible to reclaim simultaneously with mining. Provide reasons why reclamation can not proceed simultaneously with mining in these areas.

Overburden disposal areas will be reclaimed as the final slopes are developed. Once the ultimate pit limits of the quarry have been reached it will be possible to perform final reclamation on the unconsolidated overburden.

Schedule for Implementing Conservation and Reclamation Practices

Conservation & Reclamation Practices	Segment # or Area	Planned Amount	Planned Year	*Applied Amount	*Applied Year	Notes
Mining activities end	NONE PROVIDED	NONE PROVIDED	2050			NONE PROVIDED
Re-vegetate	Area 1	16.6 AC	2051			NONE PROVIDED
Remove office, scales, plant & lab	NONE PROVIDED	1 AC	2051			NONE PROVIDED
Re-slope pit edge	NONE PROVIDED	NONE PROVIDED	2052			NONE PROVIDED
Re-vegetate office, scales, plant, lab, concrete area	NONE PROVIDED	20.9 AC	2052			NONE PROVIDED
Fence formre pit area	NONE PROVIDED	4116 LF	2052			NONE PROVIDED
Pit fills in as a lake	Pit Area	37.8 AC	2052-2055			NONE PROVIDED

*Applied fields to be completed by department



EROSION CONTROL LEGEND

TEMPORARY VEGETATION
 PERMANENT VEGETATION
 SEDIMENT BARRIER - SENSITIVE
 TEMPORARY/PERMANENT DIVERSION
 NOTE: INSTALL SILT FENCE AS NEEDED

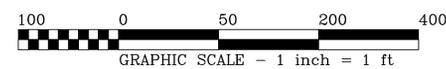


Approved by the
 S.C. Dept. of Environmental Services
 Division of Mining & Solid Waste Management
 By Jeremy E. Eddy
 Map Name SM-0431-1V3
 Date Approved February 25, 2025
 Permit # I-000431

PELHAM QUARRY PERMIT #I-000431
 LAST MODIFICATION DATED SEPT. 29, 2000

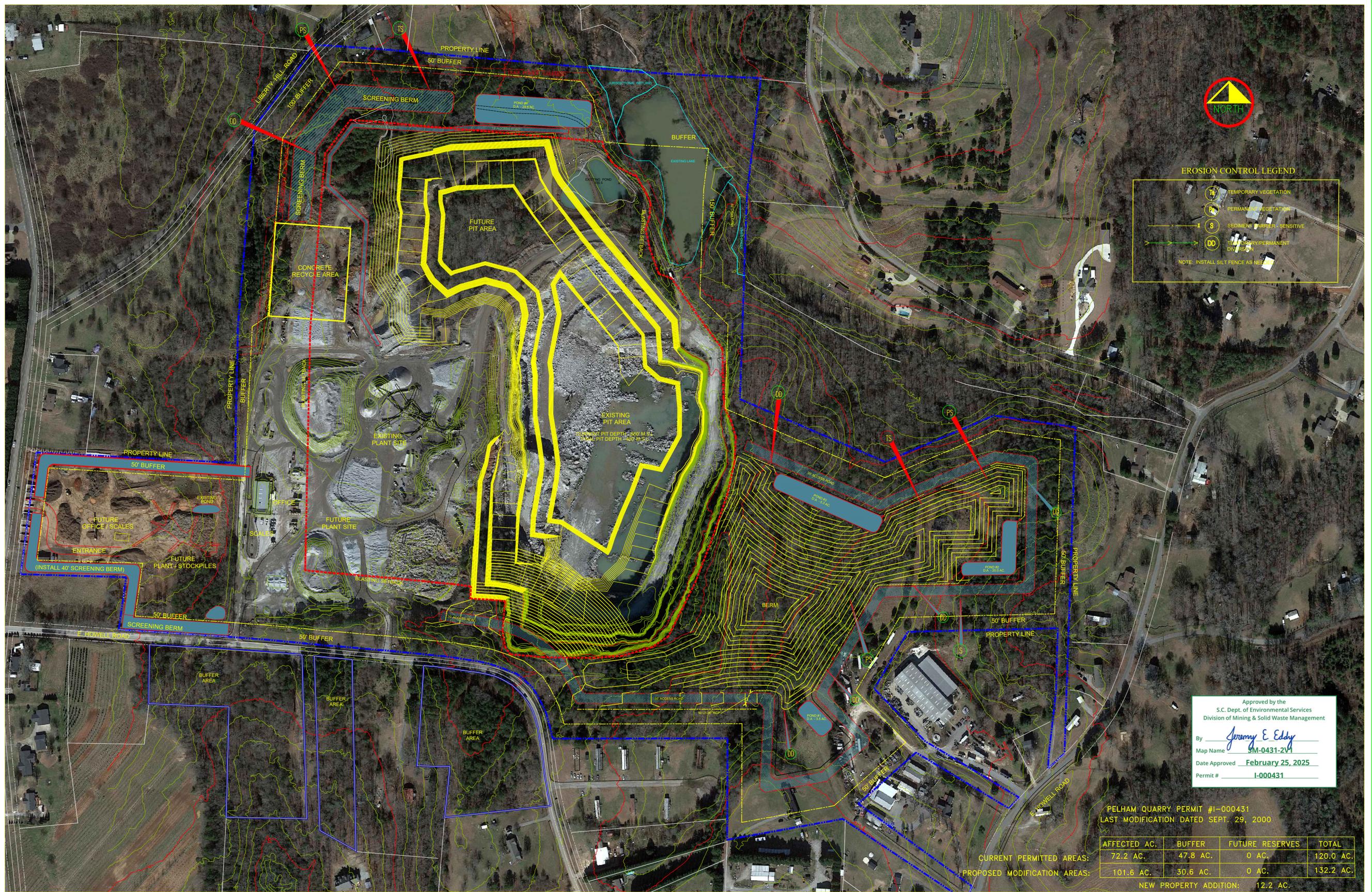
AFFECTED AC.	BUFFER	FUTURE RESERVES	TOTAL	
72.2 AC.	47.8 AC.	0 AC.	120.0 AC.	
PROPOSED MODIFICATION AREAS:	101.6 AC.	30.6 AC.	0 AC.	132.2 AC.
NEW PROPERTY ADDITION:			12.2 AC.	

CURRENT PERMITTED AREAS:
 PROPOSED MODIFICATION AREAS:



MINE PLAN
 Heidelberg Materials Southeast Agg LLC
 PEHLAM QUARRY
 SPARTANBURG COUNTY, SOUTH CAROLINA

Drawn By DB
 Edited By LDD
 Scale 1" = 100'
 Date 10/20/2023
 Drawing Number 2



EROSION CONTROL LEGEND

- TEMPORARY VEGETATION
- PERMANENT VEGETATION
- SEDIMENT BARRIER - SENSITIVE
- TEMPORARY PERMANENT DIVERSION

NOTE: INSTALL SILT FENCE AS NEEDED

Approved by the
S.C. Dept. of Environmental Services
Division of Mining & Solid Waste Management

By Jeremy E. Eddy
Map Name SM-0431-2V1
Date Approved February 25, 2025
Permit # I-000431

PELHAM QUARRY PERMIT #I-000431
LAST MODIFICATION DATED SEPT. 29, 2000

AFFECTED AC.	BUFFER	FUTURE RESERVES	TOTAL
72.2 AC.	47.8 AC.	0 AC.	120.0 AC.
101.6 AC.	30.6 AC.	0 AC.	132.2 AC.
NEW PROPERTY ADDITION:		12.2 AC.	

CURRENT PERMITTED AREAS:
PROPOSED MODIFICATION AREAS:



MINE PLAN
Heidelberg Materials Southeast Agg LLC
PELHAM QUARRY
SPARTANBURG COUNTY, SOUTH CAROLINA

Drawn By DB
Edited By LDD
Scale 1" = 100'
Date 10/20/2023
Drawing Number 2



ALL DISTURBED AREAS WILL BE VEGETATED
NATIVE GRASSES AND TREES

HIGHWALLS TO BE FENCED
WITH 6' CHAINLINK

ALL DISTURBED AREAS WILL BE VEGETATED
NATIVE GRASSES OR TREES
FINAL DIRT SLOPE TO BE 3:1
DIVERT ALL STORMWATER TO PIT

ALL SEDIMENT PONDS TO REMAIN AS PERMANENT
STRUCTURES AND ACT AS RETENTION POND. WHEN
NO LONGER NEEDED FOR SEDIMENT CONTROL, GRADE
BANKS TO 3:1 AS SHOWN AND GRASS. PRINCIPAL
SPILLWAY RISER CAN BE REMOVED IF DESIRED.
DISCHARGE BARREL AND EMERGENCY SPILLWAY WILL
REMAIN AND WILL BE ADEQUATELY SIZED TO HANDLE
FUTURE STORM FLOWS.

OFFICE & SCALES, ALONG WITH CONCRETE
FOUNDATIONS, TO BE REMOVED UNLESS
SPECIFICALLY DESIGNATED AS PART OF FUTURE
SITE USE

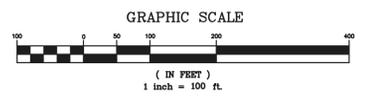
UNDISTURBED
AREA

UNDISTURBED
AREA

HIGHWALLS TO BE FENCED
WITH 6' CHAINLINK

UNDISTURBED
AREA

Approved by the
S.C. Dept. of Environmental Services
Division of Mining & Solid Waste Management
By Jeremy E Eddy
Map Name KM-0431-1V3
Date Approved February 25, 2025
Permit # I-000431



RECLAMATION PLAN Heidelberg Materials Southeast Agg LLC PEHLAM QUARRY SPARTANBURG COUNTY, SOUTH CAROLINA	Drawn By DB
	Checked By
	Scale 1" = 100'
	Date 2/10/2024
	Drawing Number 4