



Bureau of Land and Waste Management

June 19, 2023

Mr. Cory Dukes  
Sassafras Timber, LLC  
14120 Ballantyne Corp. Place  
Suite 525  
Charlotte, NC 28277-2962

RE: Approval of Application and Reclamation Plan for a Mine Operating Permit  
Issuance of Permit I-002310, Sassafras Mine, Sassafras Timber, LLC  
Dorchester County, TMS # 178-00-00-001.000 (portion)

Dear Mr. Dukes:

The S.C. Department of Health and Environmental Control (DHEC) has approved the application and reclamation plan for the Sassafras Mine as of June 19, 2023. DHEC has approved the reclamation bond submitted in the amount of \$120,000.00.

With the receipt of the reclamation bond and the approval of the application and reclamation plan, this letter serves as official notification that the Mine Operating Permit for the Sassafras Mine is being issued as of the date of this letter. Enclosed are the permit document, reclamation plan, and mine and reclamation maps.

A guide to board review outlining the procedure for requesting a final review is enclosed. Should there be any questions or you need further assistance, please contact Wendy Hamilton at 803-898-1368 or by e-mail at [hamiltws@dhec.sc.gov](mailto:hamiltws@dhec.sc.gov).

Sincerely,

Jeremy Eddy, PG, Section Manager  
Division of Mining and Solid Waste Management

enclosures

cc Wendy Boswell - Low Country Region  
Brett Caswell - BOW  
Wendy Hamilton - BLWM  
Lillian McFadden - BLWM  
Kiera Reinertsen ([kreinertsen@dorchestercounty.net](mailto:kreinertsen@dorchestercounty.net)) - Dorchester County  
Jason Ward ([wardj@dorchestercounty.net](mailto:wardj@dorchestercounty.net)) - Dorchester County

# South Carolina Board of Health and Environmental Control

## Guide to Board Review

### Pursuant to S.C. Code Ann. § 44-1-60

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation or settlement discussions during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference. In matters pertaining to decisions under the South Carolina Mining Act, appeals should be made to the South Carolina Mining Council.

#### I. Filing of Request for Final Review

1. A written Request for Final Review (RFR) and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15) calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15<sup>th</sup> day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after 5:00 p.m.
2. RFRs shall be in writing and should include, at a minimum, the following information:
  - The grounds for amending, modifying, or rescinding the staff decision;
  - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
  - the relief requested;
  - a copy of the decision for which review is requested; and
  - mailing address, email address, if applicable, and phone number(s) at which the requestor can be contacted.
3. RFRs should be filed in person or by mail at the following address:  
South Carolina Board of Health and Environmental Control  
Attention: Clerk of the Board  
2600 Bull Street  
Columbia, South Carolina 29201  
Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.gov).
4. The filing fee may be paid by cash, check or credit card and must be received by the 15<sup>th</sup> day.
5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor. All personal and financial identifying information will be redacted from the RFR and accompanying documentation before the RFR is released to the Board, Department staff or the public.
7. If an RFR pertains to an emergency order, the Clerk will, upon receipt, immediately provide a copy of the RFR to all Board members. The Chairman, or in his or her absence, the Vice-Chairman shall based on the circumstances, decide whether to refer the RFR to the RFR Committee for expedited review or to decline in writing to schedule a Final Review Conference. If the Chairman or Vice-Chairman determines review by the RFR Committee is appropriate, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response and RFR Committee review will be provided on an expedited schedule defined by the Chairman or Vice-Chairman.
8. The Clerk will email the RFR to staff and Office of General Counsel and request a Department Response within eight (8) working days. Upon receipt of the Department Response, the Clerk will forward the RFR and Department Response to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within a twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will

respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. Contested case guidance will be included within the letter.

*NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.*

9. If the RFR is to be considered by the RFR Committee, the Clerk will notify the Presiding Member of the RFR Committee and the Chairman that further review is requested by the Board. RFR Committee meetings are open to the public and will be public noticed at least 24 hours in advance.
10. Following RFR Committee or Board consideration of the RFR, if it is determined no Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Conference. Contested case guidance will be included within the letter.

## **II. Final Review Conference Scheduling**

1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
2. The Clerk will request Department staff provide the Administrative Record.
3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publically noticed and should:
  - include the place, date and time of the Conference;
  - state the presentation times allowed in the Conference;
  - state evidence may be presented at the Conference;
  - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
  - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

## **III. Final Review Conference and Decision**

1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
  - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
    - Type of decision (permit, enforcement, etc.) and description of the program.
    - Parties
    - Description of facility/site
    - Applicable statutes and regulations
    - Decision and materials relied upon in the administrative record to support the staff decision.
  - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] *NOTE: The burden of proof is on the Requestor(s)*
  - Rebuttal by Department staff [15 minutes]
  - Rebuttal by Requestor(s) [10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.
2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
3. At any time during the conference, the officers conducting the Conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the Conference.
4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
5. All Conferences are open to the public.
6. The officers may deliberate in closed session.
7. The officers may announce the decision at the conclusion of the Conference or it may be reserved for consideration.
8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court or in matters pertaining to decisions under the South Carolina Mining Act, to request a hearing before the South Carolina Mining Council.. The FAD will be sent by certified mail, return receipt requested.
9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.



# MINE OPERATING PERMIT

## PART I:

### **Sassafras Mine Sassafras Timber, LLC**

Sassafras Timber, LLC, a corporation, has been granted a Mine Operating Permit, Mine Permit Number I-002310, to operate the Sassafras Mine in accordance with 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 SECTION  
DIVISION OF MINING AND SOLID WASTE MANAGEMENT

**PERMIT NUMBER:** I-002310  
**ORIGINALLY ISSUED:** June 19, 2023  
**MODIFIED:** Not Applicable

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 IV, respectively, are also a part of this permit.

I-002310

## Sassafras Timber, LLC

**Home Office Address:** Sassafras Timber, LLC  
14120 Ballantyne Corp. Place  
Suite 525  
Charlotte, NC 28277-2962

**Local Office Address:** None

**Address for Official Mail:** Sassafras Timber, LLC  
14120 Ballantyne Corp. Place  
Suite 525  
Charlotte, NC 28277-2962

**Company personnel and title to be the contact for official business and correspondence [South Carolina Department of Health and Environmental Control (DHEC) should be notified in writing immediately of any change in contact, address, telephone or fax numbers]:**

Cory Dukes  
Director, Forest Management

Telephone: 404-736-3528  
E-mail: [dukes@tirllc.com](mailto:dukes@tirllc.com)

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

Latitude: 32.8964278 Longitude: -80.19134868

The operation is located in Dorchester County approximately 8.6 miles south of Summerville, SC. Specifically, the site is 3.75 miles southeast of the intersection of SC Primary Highways 165 and 61 (Deleamar Highway and Ashley River Road). The site is located within a 2,660 acre tract of forested land.

## Part II: MINE OPERATIONS

Sassafras Timber, LLC, also referred to as the operator, is permitted to mine sand, sand/clay, and topsoil at the Sassafras Mine. The maximum depth to the pit floor will be 20 feet below ground surface, to an elevation of +1.0 feet mean sea level, measured from the lowest ground surface elevation. Mining will take place on a tract of land owned by the referenced operator. The tract of land is identified in the submitted *Land Entry Agreements* (LEAs).

MINE/PIT CHARACTERIZATION: The sand, sand/clay, and topsoil will be excavated and loaded directly onto dump trucks for transport off-site. Ground clearing, excavation, and grading will be conducted with trackhoes and other earth-moving equipment. Adequate amounts of topsoil shall be stockpiled for reclamation of the affected area; excess topsoil not needed for reclamation may be sold.

PROCESSING PLANT LOCATED ON MINE SITE: Processing plants are not permitted at this mine site. Screens set to remove roots or other organic matter from the topsoil are not considered to be processing and are allowed on this site.

MINE DEWATERING: The water table at the mine site is relatively shallow, and lowering of the water table via dewatering is necessary to facilitate mining. 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 or previous cut 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 DHEC's Manager of the Mining and Reclamation Section, Columbia, SC, within 48 hours. After investigation, if DHEC 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 operations are not permitted at this mine site.

SIGNIFICANT CULTURAL OR HISTORICAL SITES: Comments by the SC Department of Archives and History (March 26, 2021) referenced a survey conducted by Brockington & Associates (*Cultural Resources Survey & Archaeological Testing of Selected Sites at Watson Hill Tract*, 2006). The survey identified several sites near/within the area noted on the mine map. Except for 38DR0272, it was determined the sites did not meet criteria for inclusion in the National Register of Historic Places.

Site 38DR0272, as shown on the mine map, is located within Segments 4 - 6; SCDHAH recommends further study or buffering from mine activity. Prior to any ground disturbing activities within Segments 4 - 6 (including clearing or grubbing of existing vegetation), the operator shall submit an intensive cultural resources survey to SCDHAH, and submit SCDHAH's approval for ground disturbing activities to DHEC. Note Part X: *Additional Term and Conditions #1* of this Mine Operating Permit.

VISUAL SCREEN: The mine is located within a large forested tract and the permit area abuts other large forested parcels and a utility easement. The operator shall maintain a minimum 50 foot undisturbed buffer from all property lines to appropriately screen the operation from view. If DHEC determines this buffer is inadequate, other screening measures (i.e. vegetated earthen berm), may be required.

NOISE MONITORING AND CONTROL: The operator shall use **Best Management Practices (BMPs)** to minimize noise from the mine site. This noise BMP should 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.

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 the DHEC within 30 days of the change of ownership.

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

TMS# 178-00-00-001.000 (a portion of)

Sassafras Timber LLC

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

OWNED 171.5

LEASED 0.0

TOTAL 171.5

### Part III: PERMITTED LAND

This permit allows 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 affects to the surrounding environment.

**AFFECTED LAND:** 163.0 acres of land are to be affected by Sassafras Timber, LLC under the current mine plan. 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.

The operator is permitted to affect up to 60.0 bonded acres (Segments 1 - 3) of land at any point in time in accordance with the *Schedule for Conservation and Reclamation Practices* in the approved *Reclamation Plan*. Once affected land is released as reclaimed by the Department in accordance with R.89-330, that land is no longer considered affected and the mine operator carries no further reclamation liability. The affected acres are derived from the operator's response in the *Application for a Mine Operating Permit* (Form MR-400), page 3, line 2H.

**FUTURE RESERVES:** 0.0 acres are identified as future mine 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. Failure to submit such plans to the SCDHEC and obtain approval prior to commencement of mining activities would be a violation of this permit.

**BUFFER AREAS:** 8.5 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 disturbance of the buffer areas (i.e. removal of timber) requires this *Mine Operating Permit* to be modified **prior** to any such disturbance.

**TOTAL PERMITTED AREA:** 171.5 acres as submitted on the *Land Entry Agreement(s)*.

## Part IV: MAPS

The permitted maps are listed herein. The maps are dated and further identified with DHEC assigned map number as listed and are part of the operating permit.

### Mine Maps:

SM-2310-1V1	Permit Area/Access Map	February 23, 2021/ revised August 4, 2022
SM-2310-2V1	Mine Map	July 10, 2020/ revised August 8, 2022

### Reclamation Map:

RM-2310-1V1	Reclamation Map	July 10, 2020/ revised July 25, 2022
-------------	-----------------	--------------------------------------

## Part V: RECLAMATION BOND

The Reclamation Bond is based by segments on the acres to be affected. Pursuant to Section 48-20-70 and R.89-200, the reclamation bond for this mining permit is set at \$120,000.00 (Segments 1 - 3). The reclamation bond 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 VI: PROTECTION OF NATURAL RESOURCES

### **1. Describe the area of and around the mine site. Specify topography, surface water systems, wildlife habitats, residential houses, commercial properties, recreational areas and/ or public roads.**

The site is located within a 2,603 acres parcel in a rural area of mostly undeveloped tracts. Historically, the permit area has been in silvaculture practices with existing roads and drainage ditches. The majority of adjacent parcels are forested but residences are located along the property line approximately 1.5 miles northwest of the permitted mine area. Electric easements run along the northeastern boundary of the permitted area.

The site is relatively flat topographically with wetland drainages throughout the parcel. A U.S Army Corps of Engineer (USACE) delineation has been conducted for the area of Segments 1 - 6; wetland delineations in Segment 7 shall be completed prior to any land disturbance in that area. The site has a mixture of soil types: Foxworth fine sand, Coosaw loamy fine sand, Chipley sand in Segments 1 - 6; Mouzon fine sand is the predominate soil type in Segment 7.

### **2. Methods used to prevent physical hazards to persons and to any neighboring dwelling, house, school, church, hospital, commercial or industrial building or public road.**

A gate will be installed at the entrance to the haul road (Burr Hill Road) and kept locked during inactive periods. *Warning* and/ or *Danger* signs shall be posted around the perimeter of the permit area. Fifty feet of undisturbed buffer shall remain along adjacent property lines to lessen potential impacts to utility easement and adjacent properties.

Due to the open easement along the northeastern property line, the operator shall grade side slopes as soon as feasible as excavation progresses; grading will minimize highwalls and reduce the potential of accidental falls.

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 crushed stone "mud mat" that extends the width of the haul road and stretches 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 must be removed from the site and disposed properly to prevent contamination to ground and surface water resources.

**3. Methods used to prevent an adverse effect on the purposes of a publicly owned park, forest or recreation area.**

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

**4. Measures taken to insure against substantial deposits of sediment in stream beds or lakes.**

The operator shall comply with the NPDES discharge permit and *Stormwater Pollution Prevention Plan* developed for the mine. Active pumping and discharge of water from the active pit through the sediment basin shall cease if the dewatering discharge causes flooding conditions to property downstream of the mine site. Appropriate BMPs will be installed along the bounds of the existing timber/ haul road crossing through wetlands. These BMPs must be inspected and maintained to ensure sediment does not impact adjacent wetlands; inspections need to be conducted especially after heavy rains to ensure BMPs are effective.

The wetlands shall be protected by a minimum fifty (50) foot undisturbed buffer. Additionally, the operator shall install any appropriate BMPs to ensure no sediment encroaches into wetland areas; BMPs shall be installed to the mine-side of the undisturbed buffer. The operator is allowed to discharge accumulated stormwater, free of sediment, from the sediment basin into wetlands.

**5. Measures taken to insure against landslides or unstable mine walls.**

Final slopes shall be 3H:1V to minimize potential for landslides or unstable mine walls. The operator is responsible for maintaining stable mine walls and appropriate setbacks to prevent significant slumping that may encroach into non-permitted lands.

**6. Measures taken to insure against acid water generation at the mine site that may result in pollution on adjacent property.**

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

**7. Measures taken to minimize or eliminate fugitive dust emissions from the permitted area.**

The mine operator shall 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 blowing dust.

**Part VII: STANDARD CONDITIONS OF MINE OPERATING PERMIT**

1) 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 DHEC the operator may be required to mark the area to be affected with flagging or other appropriate measures.

2) RIGHT OF ENTRY: Pursuant to Section 48-20-130 and R.89-240, the operator shall grant DHEC 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.

3) RECORDS RETENTION: All records are to be maintained through additional terms and conditions of this permit or by regulations, 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 DHEC. The operator shall furnish copies of the records upon request to DHEC.

4) PERMIT MODIFICATIONS: Pursuant to Section 48-20-80, the operator may modify the permit and/or *Reclamation Plan* upon approval by DHEC. Requests for permit and/or *Reclamation Plan* modifications may be made to DHEC on Form MR-1300. The operator shall submit any requested supporting data for consideration during DHEC 's evaluation of the modification request. If a modification request is determined to be substantial by DHEC, 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 DHEC 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, DHEC shall notify the operator of its intentions to modify the permit and/or *Reclamation Plan* pursuant to Section 48-20-150.

5) 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 DHEC. The transfer will be considered complete when all parties have received notification by certified letters of the approval of the transfer by DHEC.

6) 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 within 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, "DHEC 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 DHEC 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.

COMPLIANCE: 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 DHEC 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

1) 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 DHEC. The form for the report will be sent by regular mail to the operator to the mailing address shown on the previous year's *Annual Reclamation Report*. The operator should receive the report form from DHEC 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* (i.e. information 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 is required if there is any permitted land not fully reclaimed and released by DHEC by June 30 of each year.

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

## Part X: ADDITIONAL TERMS AND CONDITIONS

1. If archaeological materials are encountered prior to or during the construction of mine facilities or during mining, the SC Department of Archives and History, the SC Institute of Archaeology and Anthropology, and the SC Department of Health and Environmental Control should be notified immediately. Historic or cultural resources consist of those sites listed in the National Register of Historic Places and those sites that are eligible for the National Register. 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.

Prior to any ground disturbing activities within Segments 4 - 6 (including clearing or grubbing of existing vegetation), the operator shall submit an intensive cultural resources survey to SCDAH, and submit SCDAH's approval for ground disturbing activities to DHEC.

2. In the future, if determined to be necessary by SCDHEC, an appropriate fence will be installed around the affected area.

3. Temporary or permanent placement of refuse and debris from off-site locations is prohibited without approval by DHEC. Topsoil, free of debris and contaminants and as defined in Regulation 89-10D, may be brought in from off-site sources, but only for the purposes of mine land reclamation.

4. The operator shall maintain a minimum fifty foot undisturbed buffer between any land disturbance activity and wetland areas. This buffer shall be permanently flagged prior to the initiation of any mine activity or preparation. The flags shall be maintained throughout the active mine operation of the site. The operator is allowed to discharge accumulated stormwater, free of sediment, into wetlands.

5. Prior to initiating activity in in Segment 7, the operator must submit a USACE-certified wetland delineation, Coastal Zone Consistency request forms, revised mine plan and maps, and reclamation schedule. At that time SCDHEC will review the amount of the reclamation bond and adjust as necessary. All requests must receive CZC certification and be approved by SCDHEC with any bond increase received before proceeding in reserve areas.

6. The operator shall comply with the approved Coastal Zone Consistency Determination issued under the SC Coastal Zone Management Program by SCDHEC's Office of Ocean and Coastal Resource Management (OCRM). See Appendix B.

# APPENDIX A

## MODIFICATIONS TO MINE PERMIT I-002310

NUMBER	APPROVAL DATE	DESCRIPTION OF MODIFICATION (PA= Permitted Acreage; AA= Affected Acreage; FR= Reserves Acreage, B= Buffer Acreage)
Issued	6/19/23	PA = 171.5 ac., AA = 163.0 ac., FR= 0.0 ac, B = 8.5 ac Permit issued to Sassafras Timber, LLC

## **APPENDIX B**

Coastal Zone Consistency Determination  
SC Department of Health and Environmental Control  
Office of Ocean and Coastal Resource Management

Application


HP7-A8HC-KB42X

December 30, 2021



## Coastal Zone Consistency Determination

To: Wendy Hamilton, BLWM Mining and Reclamation Section

From: Christopher M Stout, OCRM Coastal Zone Consistency Section 

Applicant: Cory Dukes, Sassafras Timber LLC

Project Name: Sassafras Mine I-002310

Finding: Conditionally Consistent with the SC Coastal Zone Management Program

Site Location: Off Hwy 165, North Charleston, Dorchester County, South Carolina (TMS#: 1780000001)

Reference #: HP7-A8HC-KB42X, I-002130

Date: December 30, 2021

---

The staff of the Office of Ocean and Coastal Resource Management (OCRM) reviewed the above referenced Coastal Zone Consistency project request for mineral extraction for the removal of material. The project proposes to use 171.5 acres for resource extraction for topsoil and fill dirt. Of the 171.5 acres, 100 acres are segmented for mining, 3 acres for haul roads, and approximately 60 acres held for future reserves. No wetland impacts are proposed, and wetland delineations will be performed prior to mining activities. The mine segments will be reclaimed as ponds and grasslands. Stormwater and groundwater will be discharged after settling through wetlands associated with Rantowles Creek.

The project site has previously been surveyed for cultural resources in the *Cultural Resources Survey & Archaeological Testing of Selected Sites at Watson Hill Tract* by Brockington & Associates in 2006. The survey identified several archaeological sites that appear to be immediately adjacent to or partially included in the tract (see attached SC ArchSite map). 38DR0276, 38DR0275, 38DR0274, 38DR0273, 38DR0271, 38DR0290, 38DR0294 were determined to not meet the criteria for listing in the National Register of Historic Places. The Project Boundary is also adjacent to the Ashley River Historic District Boundary Increase.

During the cultural resources survey archaeological site 38DR0272 was recommended for additional work to determine its eligibility for listing in the National Register of Historic Places (NRHP) and its status as a significant site. Site 38DR0272 appears to be in portions of Segments 4, 5 and 6.

We hereby certify that the above referenced project is **Conditionally Consistent** with the **Guidelines for Evaluation of All Projects** as well as the Coastal Industries (*Mineral Extraction*), Wildlife and Fisheries Management, and Stormwater Management (*Mines and Landfills*) policies contained in the S.C. Coastal Zone Management Program provided the following conditions are included in the permits and adhered to by the applicant.

1. In the event that any historic or cultural resources and/or archaeological materials are found during the course of work, the applicant must notify the State Historic Preservation Office and the South Carolina Institute of Archaeology and Anthropology. Historic or cultural resources consist of those sites listed in the National Register of Historic Places and those sites that are eligible for the National Register. Archaeological materials consist of any items, fifty years old or older, which were made or used by man. These items include, but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal materials.
2. All construction BMPs must be installed, inspected and maintained to hold sediment onsite and to protect any adjacent or downstream wetlands and waters through the life of the project. Upon completion of construction activities, all disturbed (includes undeveloped) areas, including those impacted for access, must be immediately stabilized.
3. The applicant is not authorized to impact any wetlands. In the event any impacts to wetlands occur, the US Army Corps of Engineers and DHEC-OCRM must be notified and all work must cease to minimize additional impacts until the applicant receives authorization.
4. Archaeological Site 38DR0272 appears to be in portions of Segments 4, 5 and 6. As such, archaeological site 38DR0272 should undergo additional testing or be protected from ground-disturbing activities with a minimum 25-ft buffer around the site perimeter. The purpose of the additional work is to determine if the site meets the criteria for listing in the NRHP and is a significant site. All fieldwork, analyses, and report writing shall be performed by, or under the supervision of, individuals who meet the Secretary of Interior's Professional Qualification Standards. All reports and findings must be coordinated with the Department and SC Department of Archives and History prior to any mineral extraction in Segments 4, 5, and 6 within the boundaries of archaeological site 38DR0272.
5. The project must be fully consistent with local zoning and comprehensive plans prior to work being conducted.

This determination shall serve as the SCDHEC OCRM Coastal Zone Consistency Determination for the work described above. However, this determination **does not** serve as a Department permitting decision and **does not** alleviate the applicant's responsibility to obtain any applicable State or Federal permit(s) for the work. Local government authorizations **may also** be required.



Mining Form MR-500

S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE PERMITTING
2600 Bull Street, Columbia, SC 29201
Phone: 803-898-1362 Fax: 803-898-1426 E-mail: AskMines@dhec.sc.gov

RECLAMATION PLAN

Permit # J-002310

DHEC FORM 500 DATE VERSION ADOPTED 7/1/94

\*\*\*\*\*

As required in Section 48-20-90 of the South Carolina Mining Act, "An operator shall submit with his application for an operating permit a proposed reclamation plan. The reclamation plan for an operating permit only must be furnished to the local soil and water conservation district in which the mining operation is to be conducted. The plan must include as a minimum each of the elements specified in the definition of 'reclamation plan' in Section 48-20-40 and information required by the department. The reclamation plan must provide that reclamation activities, particularly those relating to control of erosion, to the extent feasible, must be conducted simultaneously with mining operations and be initiated at the earliest practicable time after completion or termination of mining on a segment of the permitted land. The plan must provide that reclamation activities must be completed within two years after completion or termination of mining on each segment of the area for which an operation permit is requested unless a longer period specifically is permitted by the department."

\*\*\*\*\*

I. APPLICANT INFORMATION

1. Name of Company: Sassafras Timber, LLC

2. Name of Proposed Mine: Sassafras Mine County: Dorchester

3. Home Office Address: 14120 Ballantyne Corp. Place, Suite 525 (404) 736-3528
(Street and P.O. Box) (Telephone No.)
Charlotte NC
(City) (State) (Zip Code) (Fax No.)

4. Local Office Address: N/A
(Street and P.O. Box) (Telephone No.)
(City) (State) (Zip Code) (Fax No.)

5. Name of company personnel and their title to be the contact for official business and correspondence: Cory Dukes

6. Location of Mine: Off of Hwy 165 North Charleston
State or County Hwy No. Nearest Town or City

II. ENVIRONMENTAL PROTECTION

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

There are no public roads adjacent to the mine area, only private agricultural roads. Due to the size and nature of the surrounding property, currently being largely managed for recreational uses and forestry, the wildlife on the property has habitat not affected by the mining activity. Sedimentation ponds and following best management practices will protect adjacent woodlands.

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

No adverse affects on adjacent surface water are anticipated. Ground and storm water will collect within the mine excavation area area and be pumped into a sediment basin, subsequently out-falling to adjacent ditches.

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

There are no known significant cultural or historic sites within the proposed mine area. Should any cultural resources be discovered during mining activities, all mining shall cease until further investigation is complete.



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

Conditions that could be hazardous to animal or fish life are not anticipated to develop as a result of the mining activity. It is expected, upon completion, this site will provide habitat for bald eagles, waterfowl, amphibians, and reptiles.

5. Describe how applicant will comply with State air quality and water quality standards as established by the S.C. Department of Health and Environmental Control.

Airborne dust will be controlled via water truck on an as needed basis, and is expected to be the only potential air quality control issue.

### III. RECLAMATION OF AFFECTED AREA

6. State useful purpose(s) the affected land is being proposed for reclamation. More than one purpose may be checked, but information should be submitted to support the feasibility for each proposed purpose.

- |   |   |
|---|---|
| a. Lake or pond <input checked="" type="checkbox"/> | f. Grassland <input checked="" type="checkbox"/>  |
| b. Agriculture <input type="checkbox"/>             | g. Recreation <input checked="" type="checkbox"/> |
| c. Woodlands <input checked="" type="checkbox"/>    | h. Wetlands <input type="checkbox"/>              |
| d. Residential <input type="checkbox"/>             | i. Park <input type="checkbox"/>                  |
| e. Commercial <input type="checkbox"/>              | j. Other <input type="checkbox"/>                 |

7. State the final maximum surface gradient(s) (slope) in soil, sand, or other unconsolidated materials on reclaimed land. 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.

3V:1H

8. How will the final slopes in unconsolidated material be accomplished? 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). Operator should show calculations or other appropriate information to demonstrate that there is adequate materials in backfilling and grading to meet the requirements for final slope.

Final grading will be accomplished using the on-site overburden along pond edges. The overburden material location will be adjacent to the mine.

9. 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.

No additional soil tests or fertilization is planned. Site preparation will consist of grading banks and disturbed areas and seeding according to the attached seeding plan.

10. Provide, as a separate document, a closure plan of the mine and permitted facilities to prevent a release of contaminants from being harmful to the environment. A closure plan is not necessary for all mines, but is required where the possibility exists 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).

N/A

11. Method of control of contaminants and disposal of mine waste soil, rock, mineral, scrap, tailings, slimes, and other material directly connected with the mining, cleaning, and preparation of mineral substances mined and includes all waste materials deposited on or in the permit area from any source.

There will no contaminants, waste soil, rock, minerals, scrap, tailings, or slime produced that will need to be disposed of.

12. Method of reclaiming settling and/or sediment ponds.

Sediment basins will be incorporated into the pond area and reclaimed as part of the individual segments as previously described. Existing segments will be used as sediment basins when possible.

13. Describe method of restoration or establishment of stream channels, stream banks and site drainage to a condition minimizing erosion, siltation and other pollution.

Stream banks or stream channels do not currently existing on-site other than roadside swales. Erosion and siltation will be minimized through the use of best management practices

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

Natural vegetation will be used as primary ground cover. With this reclamation scheme, it is unlikely that there will be any deterioration before release. Regular inspections will be carried out to identify areas of erosion which will be repaired accordingly. Additional seeding will be applied as necessary to ensure ground cover.

15. 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. These provisions can include but are not limited to setbacks, fencing,

There are no residential properties directly adjacent to the site. There is a 50' buffer along adjacent property lines, but those properties are undeveloped woodlands. A gate will be installed on the agricultural road leading into the site and will remain locked when site is unoccupied.

16. 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 geotech report indicates that groundwater tables are 3.5 - 4.0' below existing grade. It is anticipated water depths will be 10 - 15' deep.

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

No existing structures except an outfall structure will remain to provide an outlet for water level control.

18. Attach **two (2)** copies 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. 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.

#### IV. SCHEDULE FOR IMPLEMENTATION OF CONSERVATION AND RECLAMATION PRACTICES

19. 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. N/A

20. Section 48-20-40(16)(1) of the S.C. Mining Act requires a time schedule, including the anticipated years for completion of reclamation by segments. This time schedule should meet the requirements of Section 48-20-90 of the Mining Act.

### SCHEDULE FOR IMPLEMENTING CONSERVATION AND RECLAMATION PRACTICES

<b>Conservation &amp; Reclamation Practices</b>	<b>Segment # or Area</b>	<b>Planned</b>		<b>*Applied</b>		<b>Notes</b>
		<i>Amount</i>	<i>Year</i>	<i>Amount</i>	<i>Month/Year</i>	
Install survey control markers	PA	171.5 ac	2023			See Note 1
Flag buffer area	PA		2023			See Note 2
Post Warning signs	PA		2023			See Note 2
Install stormwater BMPs, sediment basins	AA		2023			See Note 3
Construct haul road, mud mat, install gate	AA		2023			Maintain LOM
Clear/ stockpile topsoil	1	20 ac	2023			See Notes 3, 4, 5
Excavate	1	20 ac	2023-2024			See Note 6
Clear/ stockpile topsoil	2	20 ac	2025			See Notes 3, 4, 5
Grade, topsoil, fertilize, seed final outer slopes	1		2024			See Notes 9, 10
Excavate	2	20 ac	2025-2026			See Note 6
Clear/ stockpile topsoil	3	20 ac	2027			See Notes 3, 4, 5
Grade, topsoil, fertilize, seed final outer slopes	2		2026			See Notes 9, 10
Submit A&H protection plan for A&H Site 38DR0272	4, 5, 6		2026			For approval, see Note 7
Excavate	3	20 ac	2027-2028			See Note 6
Clear/ stockpile topsoil	4	20 ac	2029			Upon protection approval; see Notes 3, 4, 5
Grade, topsoil, fertilize, seed final outer slopes	3	20 ac	2028			See Notes 9, 10
Excavate	4	20 ac	2029-2030			See Note 6
Clear/ stockpile topsoil	5	10 ac	2030			See Notes 3, 4, 5
Grade, topsoil, fertilize, seed final outer slopes	4	20 ac	2030			See Notes 9, 10
Excavate	5	10 ac	2030-2031			See Note 6
Clear/ stockpile topsoil	6	10 ac	2032			See Notes 3, 4, 5
Grade, topsoil, fertilize, seed final outer slopes	5	10 ac	2031			See Notes 9, 10
Submit WL delineation, CZC forms, plans, maps, schedule	7	60 ac	2031			See Note 8
Excavate	6	10 ac	2032-2033			See Note 6

Grade, topsoil, fertilize, seed final outer slopes	6	10 ac	2033			See Notes 9, 10
Inspect, repair, maintain	AA	100 ac	2034			See Note 10; until release by the Department

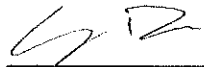
- Notes:
1. Two permanent survey markers within the permitted area shall be located at least 100 feet apart as required in R.89-130. These markers are to be maintained LOM.
  2. Markers should be located prior to the start of mining. Permanently flag buffers associated with property lines, wetlands, archaeological site, road, utility easement.
  3. Best Management Practices shall be installed prior to land clearing activity. BMPs shall be inspected and maintained to ensure they are functioning properly and stormwater is retained on site or discharged in accordance with NPDES requirements.
  4. Minimize the amount of disturbed acreage to reduce the potential for offsite sediment and erosion control concerns.
  5. Enough topsoil for reclamation must be stockpiled at the site.
  6. Final outer slopes shall be graded as excavations progress.
  7. Prior to any activity in Segments 4, 5, or 6, the plan for protecting A&H Site 38DR0272 shall be submitted. Approval of the plan must be received prior to any ground-clearing in these segments.
  8. A wetland delineation, Coastal Zone Consistency review forms, mine and reclamation maps, reclamation schedule must be revised and approved by DHEC prior to initiating activity in Segment 7.
  9. Reclamation of mined out areas should be initiated within 180 days of termination of mining in those areas or earlier if grading/ soil preparation/ seeding is feasible; amount of affected acreage must be minimized.
  10. Reclamation/ vegetation shall be inspected on a regular basis and corrective measures taken to prevent erosion of final slopes

AA – Affected Area    BMPs – Best Management Practices    LOM – Life of Mine    PA – Permitted Area    PL – Property Line  
 ST – Sediment Traps    SW – Stormwater    TS – Topsoil    WL - Wetlands

\* Completed by the Department

YOU ARE NOTIFIED THAT:

- 1) You, the operator, must file an application to modify the reclamation plan in the event actual reclamation varies from the set forth hereinabove; *and*
- 2) If at any time it appears to the Department that the activities under the reclamation plan are failing to achieve the purposes and requirements of the S.C. Mining Act, the Department may modify the RECLAMATION PLAN in accordance to Section 48-20-150.



\_\_\_\_\_  
Signature of Applicant/Operator or his Authorized Representative

**Cory Dukes**

\_\_\_\_\_  
Printed Name of Applicant/Operator or his Authorized Representative

Senior Investment Forester  
\_\_\_\_\_  
Title

August 20, 2020  
\_\_\_\_\_  
Date

**Department Use Only**

Permit No.: L-002310 Date Application Approved: 6/19/23 Date Bond Rec'd: 6/5/23

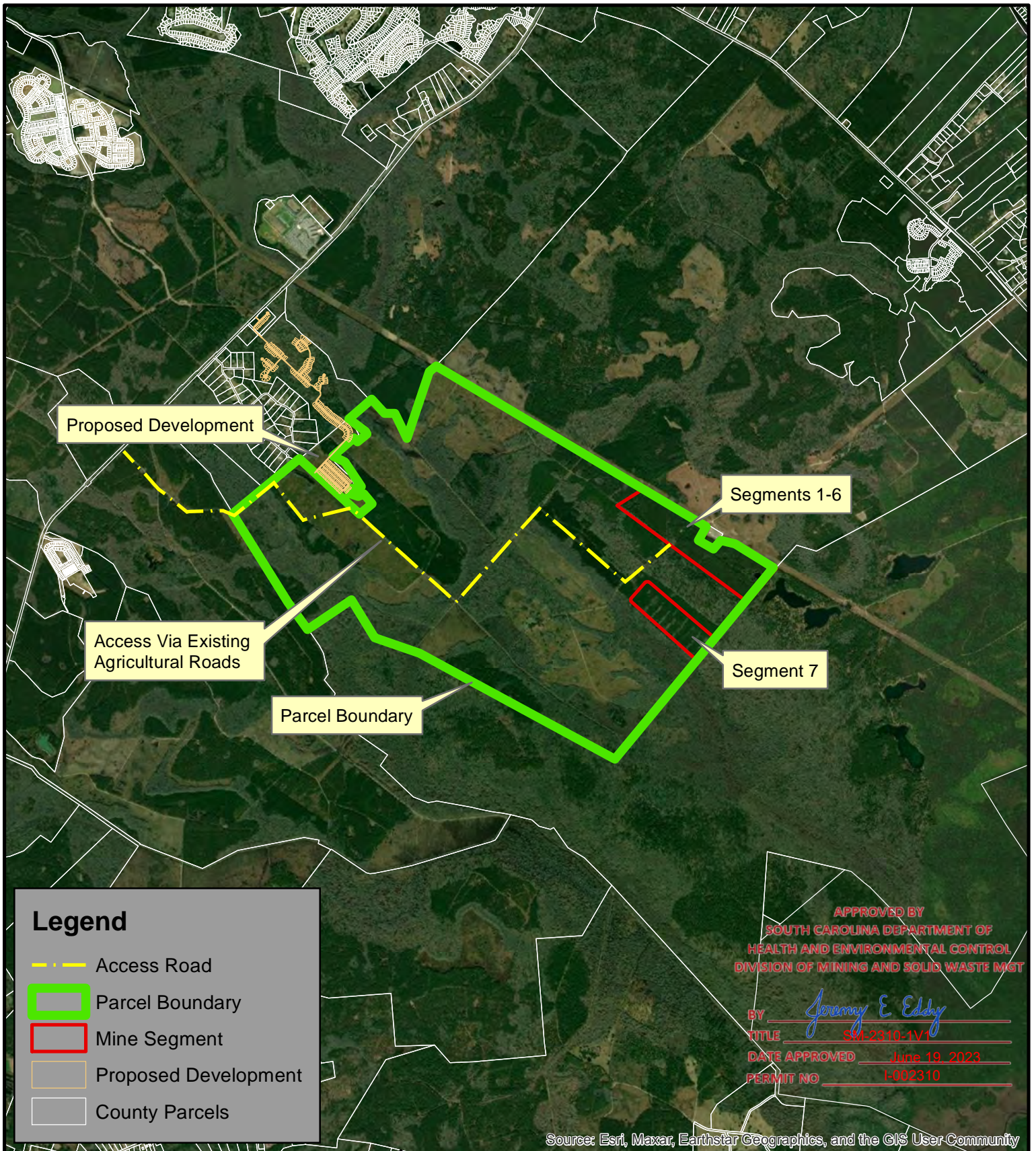
Bond Amount: \$120,000.00 Blanket or Single Bond: Single Permit Issuance Date: 6/19/23

**ACTION TAKEN ON THIS RECLAMATION PLAN**






Approved  Denied  Approved with Additional Terms and Conditions

By: Jeremy E. Eddy  
SECTION MANAGER

Date: 6/19/23



**Legend**

-  Access Road
-  Parcel Boundary
-  Mine Segment
-  Proposed Development
-  County Parcels

APPROVED BY  
 SOUTH CAROLINA DEPARTMENT OF  
 HEALTH AND ENVIRONMENTAL CONTROL  
 DIVISION OF MINING AND SOLID WASTE MGT

BY Jeremy E. Eddy  
 TITLE SM-2310-1V1  
 DATE APPROVED June 19, 2023  
 PERMIT NO I-002310

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Access Map  
 Project #: 01-4482m Date: 2/23/21  
 Created by: JRD Revised: 8/04/2022

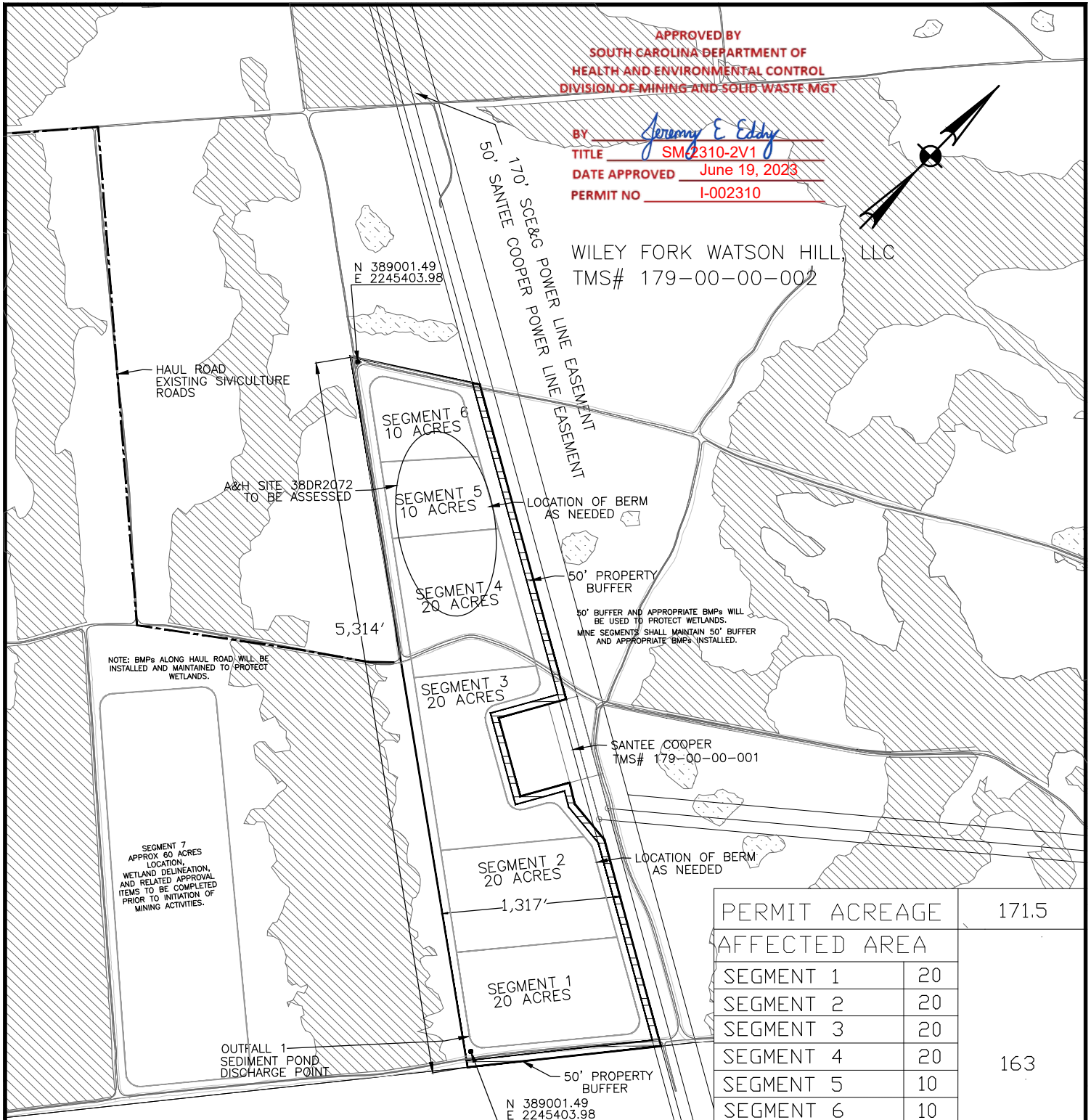
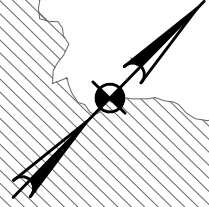
Sassafras Mine, North Charleston, SC  
 Sassafras Timber, LLC  
 14120 Ballantyne Corp. Place, Suite 525  
 Charlotte, NC 28277



APPROVED BY  
 SOUTH CAROLINA DEPARTMENT OF  
 HEALTH AND ENVIRONMENTAL CONTROL  
 DIVISION OF MINING AND SOLID WASTE MGT

BY Jeremy E. Eddy  
 TITLE SM2310-2V1  
 DATE APPROVED June 19, 2023  
 PERMIT NO I-002310

WILEY FORK WATSON HILL, LLC  
 TMS# 179-00-00-002



NOTE: BMPs ALONG HAUL ROAD WILL BE INSTALLED AND MAINTAINED TO PROTECT WETLANDS.

SEGMENT 7 APPROX 60 ACRES LOCATION, WETLAND DELINEATION, AND RELATED APPROVAL ITEMS TO BE COMPLETED PRIOR TO INITIATION OF MINING ACTIVITIES.

50' BUFFER AND APPROPRIATE BMPs WILL BE USED TO PROTECT WETLANDS. MINE SEGMENTS SHALL MAINTAIN 50' BUFFER AND APPROPRIATE BMPs INSTALLED.

PERMIT ACREAGE	171.5
AFFECTED AREA	
SEGMENT 1	20
SEGMENT 2	20
SEGMENT 3	20
SEGMENT 4	20
SEGMENT 5	10
SEGMENT 6	10
SEGMENT 7	60
HAUL ROAD	3
BUFFER	8.5
	163



MIDDLETON PLACE LLC  
 TMS# 180-00-00-019

MINE MAP

PROJECT #: 01-4482

DATE: 07/10/20

CREATED BY: JRD

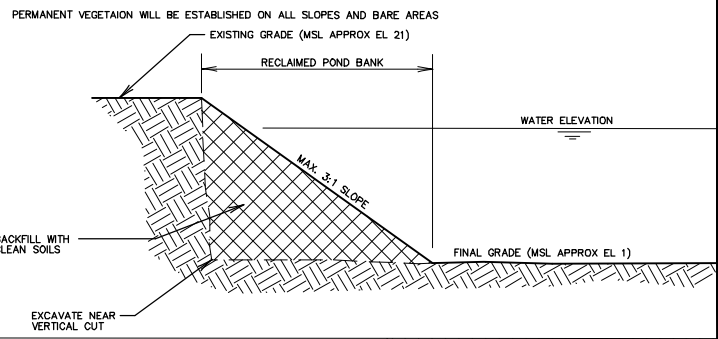
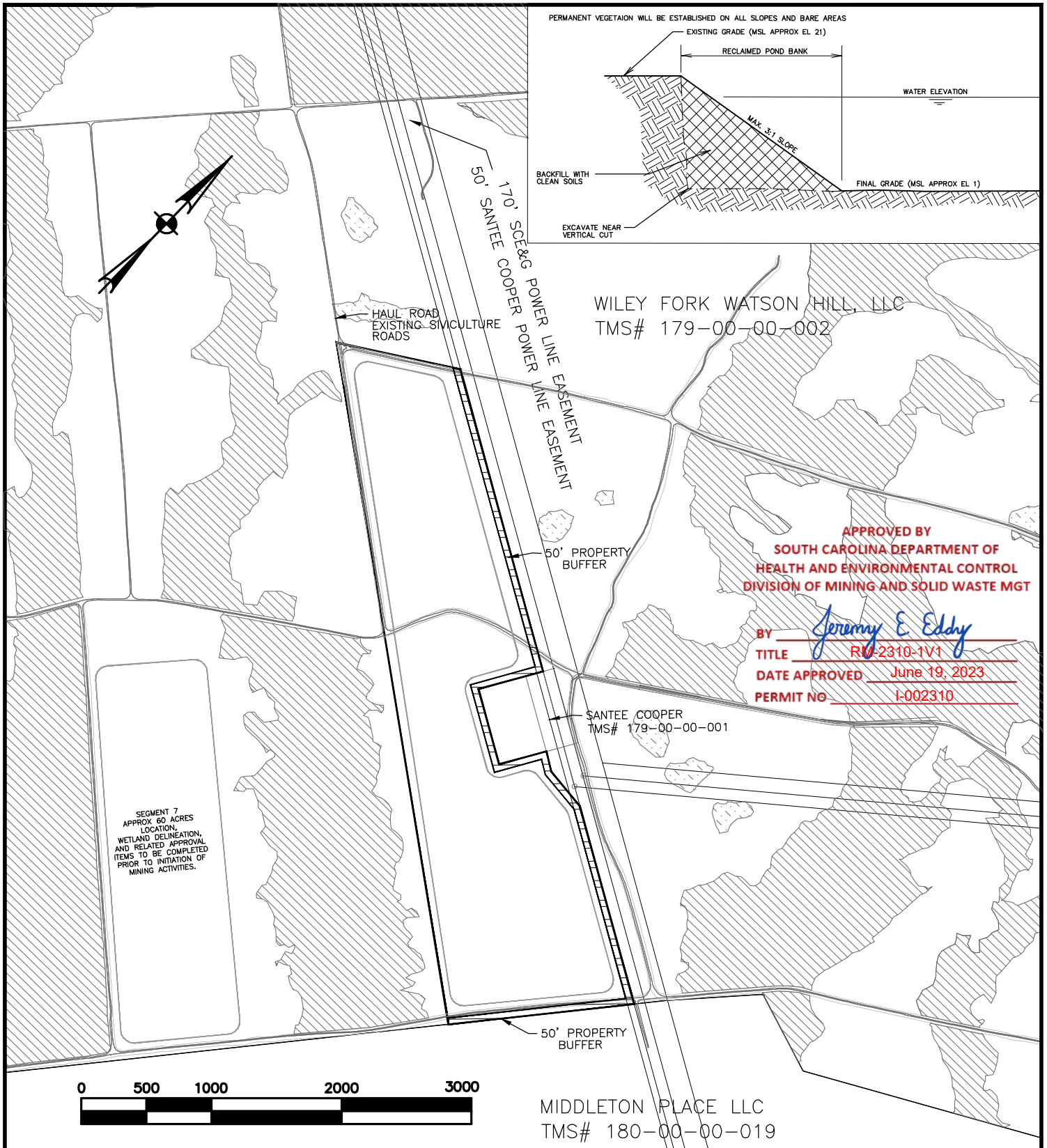
REVISED: 8/8/22

Sassafras Mine, North Charleston, SC  
 Sassafras Timber, LLC  
 14120 Ballantyne Corp. Place, Suite 525  
 Charlotte, NC 28277

- SURVEY CONTROL POINTS
- USACE JURISDICTIONAL WETLANDS (J)
- NON-JURISDICTIONAL WETLANDS (NJ)







WILEY FORK WATSON HILL, LLC  
TMS# 179-00-00-002

APPROVED BY  
SOUTH CAROLINA DEPARTMENT OF  
HEALTH AND ENVIRONMENTAL CONTROL  
DIVISION OF MINING AND SOLID WASTE MGT

BY Jeremy E. Eddy  
TITLE RM-2310-1V1  
DATE APPROVED June 19, 2023  
PERMIT NO I-002310

SANTEE COOPER  
TMS# 179-00-00-001

MIDDLETON PLACE LLC  
TMS# 180-00-00-019

SEGMENT 7  
APPROX 60 ACRES  
LOCATION,  
WETLAND DELINEATION,  
AND RELATED APPROVAL  
ITEMS TO BE COMPLETED  
PRIOR TO INITIATION OF  
MINING ACTIVITIES.



RECLAMATION MAP	
PROJECT #: 01-4482	DATE: 07/10/20
CREATED BY: JRD	REVISED: 07/25/22

Sassafras Mine, North Charleston, SC  
Sassafras Timber, LLC  
14120 Ballantyne Corp. Place, Suite 525  
Charlotte, NC 28277



	USACE JURISDICTIONAL WETLANDS (J)
	NON-JURISDICTIONAL WETLANDS (NJ)