



January 11, 2022

Allston Farrell LLC
Randy Allston
PO Box 814
Mount Pleasant, SC 29465

RE: Approval of Application to Modify a Mine Operating Permit
Modification of Mine Operating Permit I-002209
Buist Mine, Charleston County

Dear Mr. Randy Allston,

The S.C. Department of Health and Environmental Control (DHEC) has approved the application to modify the Buist Mine as of January 10, 2022. DHEC has approved the reclamation bond submitted in the amount of \$45,064.00.

With the receipt of the reclamation bond and the approval of the application, this letter serves as official notification that the Mine Operating Permit for the Buist Mine is being modified 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 if we may be of further assistance, please do not hesitate to contact the project manager, William Meservy, at (803) 898-1369 or by e-mail at meservwn@dhec.sc.gov. Hollon Stillwell is the regional mine inspector for Charleston County.

Sincerely,

Jeremy E. Eddy, P.G.
Manager - Mining and Reclamation Section
Division of Mining and Solid Waste Management

cc: William Meservy – DMSWM
Hollon Stillwell – Regional Inspector
Brett Caswell – BoW
Roy DeHaven (planner@townofhollywood.org) – Town of Hollywood
Ed Holton (edh@townofhollywood.org) – Town of Hollywood
Jennifer Miller (JMiller@charlestoncounty.org) – Charleston County
Jennifer Werking (JWerking@charlestoncounty.org) – Charleston County
Gary McClellan (stormwater@charlestoncounty.org) – Charleston County



MINE OPERATING PERMIT

PART I:

Buist Mine Allston Farrell LLC

Allston Farrell LLC, a corporation, has been granted a Mine Operating Permit, Mine Permit Number I-002209, to operate the Buist 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-002209
ORIGINALLY ISSUED: January 25, 2019
MODIFIED: January 11, 2023

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.

Allston Farrell LLC

Home Office Address: Allston Farrell LLC
PO Box 814
Mount Pleasant, SC 29465

Address for Official Mail: Allston Farrell LLC
Randy Allston
PO Box 814
Mount Pleasant, SC 29465

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]:

Randy Allston
Vice President

Telephone: (843) 822-0081
Email: randy.allston@yahoo.com

LOCATION: The mine is located on the Ravenel & Wadmalaw Island, SC U.S.G.S. 7.5' Topographic Maps. The approximate geographic coordinates for the site are:

Latitude: 32.750496 Longitude: -80.221758

DESCRIBE LOCATION: The operation is located in Charleston County, approximately 1.5 mile(s) northeast of Hollywood, S.C. Specifically, the site is located 0.65 miles northwest of the intersection of Salter's Hill Road and Highway 162.

Part II: MINE OPERATIONS

Allston Farrell LLC, also referred to as the operator, is permitted to mine sand and topsoil at the Buist Mine. The maximum depth to the pit floor will be 20 feet below ground surface (to an elevation of +15 feet mean sea level) measured from the lowest ground surface elevation. Mining will take place on tracts of land leased by the referenced operator. These tracts of land are identified in the submitted *Land Entry Agreements* (LEAs).

MINE/PIT CHARACTERIZATION:

The sand and topsoil will be excavated and stockpiled on site. Ground clearing will be accomplished by bulldozer. Excavation, stockpiling, and the loading of material will be done by excavator. Dump trucks will be used to haul material off-site. Grading for reclamation will be done with a bulldozer. 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. Groundwater shall be pumped into the sump in Segment 1 and allowed to clarify before being discharged. 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 DHEC's Manager of the Mining and Reclamation Section, Columbia, SC, within 24 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:

No significant cultural or historical sites have been identified. The State Historic Preservation Office has reviewed the application and determined that a cultural resources survey is not necessary for this site. See Additional Term & Condition #1.

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.

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: RECLAMATION BOND

The Reclamation Bond is based upon the total affected acres. Pursuant to Section 48-20-70 and R.89-200, the reclamation bond for this mining permit is set at \$45,064.00. 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.

Prior to mining activities, this site's land use type was undeveloped; the immediate area around this site is undeveloped. The topography of this area is slightly variable (i.e., mostly flat), with surface elevation ranging from 30-40 ft. MSL. There is a pond and USACE-delineated wetlands located within the mine site. 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. There are residential area(s) south and east of the mine site.

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 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.

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 shall be removed from the site and disposed of 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 recreation 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 General Permit for Non-metallic Mineral Mining and Stormwater Pollution Prevention Plan developed for the mine.

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

During times of inactivity or for final reclamation, slopes shall be constructed no steeper than a 3H:1V gradient in order to minimize the 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 currently found on this site.

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

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

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. 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 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 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* 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 DHEC by June 30 of each year.

2) SPECIAL REPORTS: DHEC may at any time request information, data, or explanations from the operator as to conditions relating to the permitted mine site. Such requests from DHEC shall be made in writing to the operator with an 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 S.C. Department of Archives and History and DHEC 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.

2. Temporary or permanent placement of refuse and debris (e.g., concrete, brick, asphalt) from off-site locations is prohibited without approval by DHEC. Topsoil fill approved by DHEC may be brought in from off-site sources only for the purposes of mine land reclamation.

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

4. The operator shall maintain a minimum 50ft. undisturbed buffer between all land disturbance activity and any USACE 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.

5. 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-002209

NUMBER	DATE	DESCRIPTION OF MODIFICATION (PA= Permitted Acreage; AA= Affected, Bonded Acreage; FR= Reserves Acreage, B= Buffer Acreage)
Issue	1/25/2019	PA = 74.3ac., AA = 23.25ac., FR = 0.0ac., B = 51.1ac.
22-1	1/11/2023	PA = 74.3ac., AA = 35.9ac., FR = 0.0ac., B = 38.4ac. Reallocated 12.7ac from buffer to affected (Seg 6-8); increased financial assurance.

APPENDIX B


COASTAL ZONE CONSISTENCY



Coastal Zone Consistency Determination

To: William Meservy, BOW Coastal Stormwater Permitting Section

From: Christopher M Stout, OCRM Coastal Zone Consistency Section

Applicant: Matthew Farrell, ALLSTON FARRELL LLC 

Project Name: Buist Mine

Finding: Conditionally Consistent with the SC Coastal Zone Management Program

Site Location: Buist Hanahan Road, Hollywood, Charleston County, South Carolina (TMS#: 1910000056)

Reference #: HPF-J90C-490VR, I-002209

Date: January 10, 2023

The staff of the Office of Ocean and Coastal Resource Management (OCRM) reviewed the above referenced Coastal Zone Consistency project request for a proposed modification to an existing mining operation. The modification is to allow for mining in areas previously identified as buffer and will expand the effected acreage from 23.2 acres to 35.9 acres. The mining depth and access will remain the same as previously permitted. Stormwater will continue to be routed to a pit/sump area and allowed to infiltrate into the sand/clay. Pit water will be discharged when necessary at the permitted location under SCG731407. The floating pump intake will be maintained at a minimum of 2' above the sump bottom and/or accumulated sediment. The discharged water will be routed through a suitable energy dissipater to control erosion. Wetlands onsite will be protected from a 50 foot upland buffer.

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*), Activities in Areas of Special Resource Significance (*Wetlands*), 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. 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.
3. The project must be fully consistent with local zoning and comprehensive plans prior to work being conducted.
4. The pumping of groundwater from the sediment basin must be done with a floating intake(s) only. Pumping of the basin must cease whenever the water levels come to within 2 feet of the pond bottom.
5. Best Management Practices (BMPs) employed at the discharge point must ensure that discharged wastewater will not negatively affect receiving wetlands.
6. All construction BMPs must be installed, inspected and maintained to retain sediment onsite and to protect adjacent or downstream wetlands and waters through the life of the project. Upon completion of construction activities, all disturbed areas, including those impacted for access, must be immediately stabilized.

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 MANAGEMENT
2600 Bull Street, Columbia, SC 29201
Telephone Number(803) 869-4261 Fax Number: (803) 896-4001

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE MANAGEMENT
2600 Bull Street; Columbia, SC 29201
Telephone Number (803) 896-4261 Fax Number (803) 896-4001

RECLAMATION PLAN
FORM MR-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: Allston Farrell, LLC
2. Name of Proposed Mine: Buist Mine County: Charleston
3. Home Office Address: Mail-PO Box 814 (St.3323 Wren St. N. Chas. SC 29406) 843-822-0081
Mt. Pleasant SC 29465 843-202-0081
(City) (State) (Zip Code) (Fax. No.)
4. Local Office Address: Same No office at mine
(Street and P.O. Box) (Telephone No.)
(City) (State) (Zip Code) (Fax. No.)
5. Designate to which office Official Mail is to be sent:
Home Office: x Local Office:
6. Name of company personnel and their title to be the contact for official business and correspondence: Randy Allston, Vice President

II. ENVIRONMENTAL PROTECTION

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

During mining, wildlife areas, woodlands, cropland and residences will be protect with a variety of methods. Protection of these resources can be achieved in part by observing setbacks to property lines, conducting concurrent reclamation as feasible, using accepted agronomic practices to establish temporary and permanent vegetation. Wildlife may be temporarily displaced during mining; however, experience has shown once mining ceases and reclamation completed new wildlife habitats are formed and populated by indigenous animal species.

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

Additionally, all surface waters will be protected by complying with the NPDES permit requirements. Parameters are set to be protective of aquatic life in the receiving streams and human health and safety. Stormwater will be managed using best management practices and complying with SC DHEC's *NPDES General Permit for Discharges Associated with Nonmetal Mineral Mining*. Furthermore, the operator will implement accepted soil and water conservation practices to stabilize disturbed soil. These practices include, at a minimum, proper soil preparation (e. g, grading, scarifying, fertilizing, etc.), seed selection, planting techniques and maintenance until vegetation becomes self sustaining.

Potential for groundwater contamination will be low to non-existent because mining will not use chemicals. Groundwater draw down will be limited in area by pumping groundwater from active segments into previous mined segments. After mining, groundwater levels will rebound to approximate original elevations.

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

No known significant cultural or historic resources on site.

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

Proper reclamation of the mine site will include stabilizing all disturbed soils with vegetation, removal of mine equipment, clean up of any spillage of petroleum products, and removal of scrap material. Buffer for active mine segments and sediment basin will provide protection to fisheries in nearby streams. Establishing 3:1 slopes around the pit will remove hazardous conditions for the public and indigenous animal populations.

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.

Site will not use a process plant. Fugitive dust emissions from mobile equipment will be controlled during active mining with use of water truck. Mine is in a rural area with significant buffers between mining and nearby homes or businesses. After mining, vegetation will be established to stabilize the soil and prevent windblown dust from occurring.

III. RECLAMATION OF AFFECTED AREA

6. State useful purpose(s) the affected land is being proposed to be reclaimed to. 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 _____ | g. Recreation _____ |
| c. Woodlands _____ | h. Wetlands _____ |
| d. Residential _____ | i. Park _____ |
| e. Commercial _____ | j. Other _____ |

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.

Final maximum gradient for pit slopes will be 3:1. .

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 bring 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 (ie. 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.

Backfilling is not necessary to achieve 3:1 slopes.

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.

Mine operator will follow soil test, seed bed preparation, seed mix selection, soil amendments (fertilizer, lime, growth stimulants, etc.), cover and seeding rates based upon SC DOT's *Supplemental Technical Specification (SC-M-810-2(04/11)) for Seeding*.

Revegetated sites will be maintained with periodic inspections to detect areas with significant erosion, seed germination failure or significant plant die off. Site will be inspected after significant storm events to detect wash outs or gullies in planted areas. Damaged areas will be repaired where necessary by fixing erosion damage and reseeded as necessary.

- 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 exist for (a) acid rock drainage; (b) where the National Pollutant Discharge Elimination Systems (NPDES) Permit have discharge limitation parameters other than pH and Total Suspended Solids (TSS); (c) chemically treated tailings or stockpiles (excludes fertilizer or lime for revegetation purposes).**
Reclamation will not require a closure plan. A) The sand and clay is chemically inert and will not generate acid waters. B) This mine qualifies for coverage under the *NPDES General Permit for Discharges Associated with Nonmetal Mineral Mining Facilities (SCG731407)* with no additional parameters other than pH and TSS. C) No chemicals will be used in the mining process.
- 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.**
A process plant will not be a part of this mine. No mine waste will be generated.
- 12. Method of reclaiming settling and/or sediment ponds.**
At the end of mining, the pit sump will be part of the pond.
- 13. Describe method of restoration or establishment of stream channels, stream banks and site drainage to a condition minimizing erosion, siltation and other pollution.**
Not applicable - no streams will be diverted or relocated by mining. All streams and surface drainages will be protected by minimum 50 foot upland buffers.
- 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?**
Areas that have undergone final reclamation practices will be maintained through periodic inspections and conducting any necessary repairs in a timely manner.
- 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, signs, benching, guardrails and boulders.**
All slopes will be graded to a maximum of 3:1 slope to ensure slope stability and remove the danger of accidental falls.
- 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.**
Areas of the affected land will be properly graded to prevent unwanted pools of water from collecting and prevent foul water from forming. The pond created by mining will comply with the required depth of a minimum of 4 feet over 50% of the pond surface area.
- 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 structures will remain after mining is terminated.

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 of 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 cannot proceed simultaneously with mining in these areas.

Not applicable

Buist Mine

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

Conservation & Reclamation Practices	Segment or Area	Planned		*Applied		Notes
		Amount	Year	Amount	Month/Year	
Establish silt fencing where necessary and construct Access Road; TS and revegetate disturbed area and road shoulders	Access Road					Established previously under GP1 permit
Mark 50' wetland and property line buffers	Seg 1 and Haul Road	1,200 lf	2018			Established previously under GP1 permit
Establish pit sump for pit dewatering and sediment control	Seg 1	1	2018			
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 1	5.3 ac	2020			
Mark 50' wetland and property line buffers	Seg 3	1,300 lf	2020			Wetland delineated previous under GP1 permit
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 3	4.0 ac	2020			
Mark 50' wetland and property line buffers	Seg 2	400 lf	2021			Wetland delineated previous under GP1 permit
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 2	5.3 ac	2021			
Mark 50' wetland and property line buffers	Seg 4	750 lf	2021			Wetland delineated previous under GP1 permit
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 4	4.2 ac	2021			
Mark 50' wetland and property line buffers	Seg 5	1,100 lf	2022			Wetland delineated previous under GP1 permit
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 5	3.4 ac	2022			
Mark 50' wetland and property line buffers	Seg 6	2,500 lf	2023			
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 6	6.9 ac	2023			
Mark 50' wetland and property line buffers	Seg 7	1,700 lf	2023			
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 7	2.9 ac	2024			
Mark 50' wetland and property line buffers	Seg 8	1,600 lf	2024			
Grade pond slopes to 3:1 grade, topsoil revegetate	Seg 8	2.9 ac	2024			
End of mining, remove equipment	All					
Allow Pit to fill with water to create pond	Pit	35.0 ac				
Monitor for stable slopes and vegetation establishment and sustainability	All	2 growing seasons				
AA – Affected Area BMPs – Best Management Practices Fert. – Fertilize LOM – Life of Mine MW - Monitoring Well PA – Permitted Area PL – Property Line SB – Sediment Basin 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.

llrfg

Signature of Applicant/Operator or his Authorized Representative

Matthew R. Farnoc

Printed Name of Applicant/Operator or his Authorized Representative

President

Title

8/16/17

Date

Department Use Only

Permit No. _____ Date Application Approved _____ Date Bond Rec'd _____

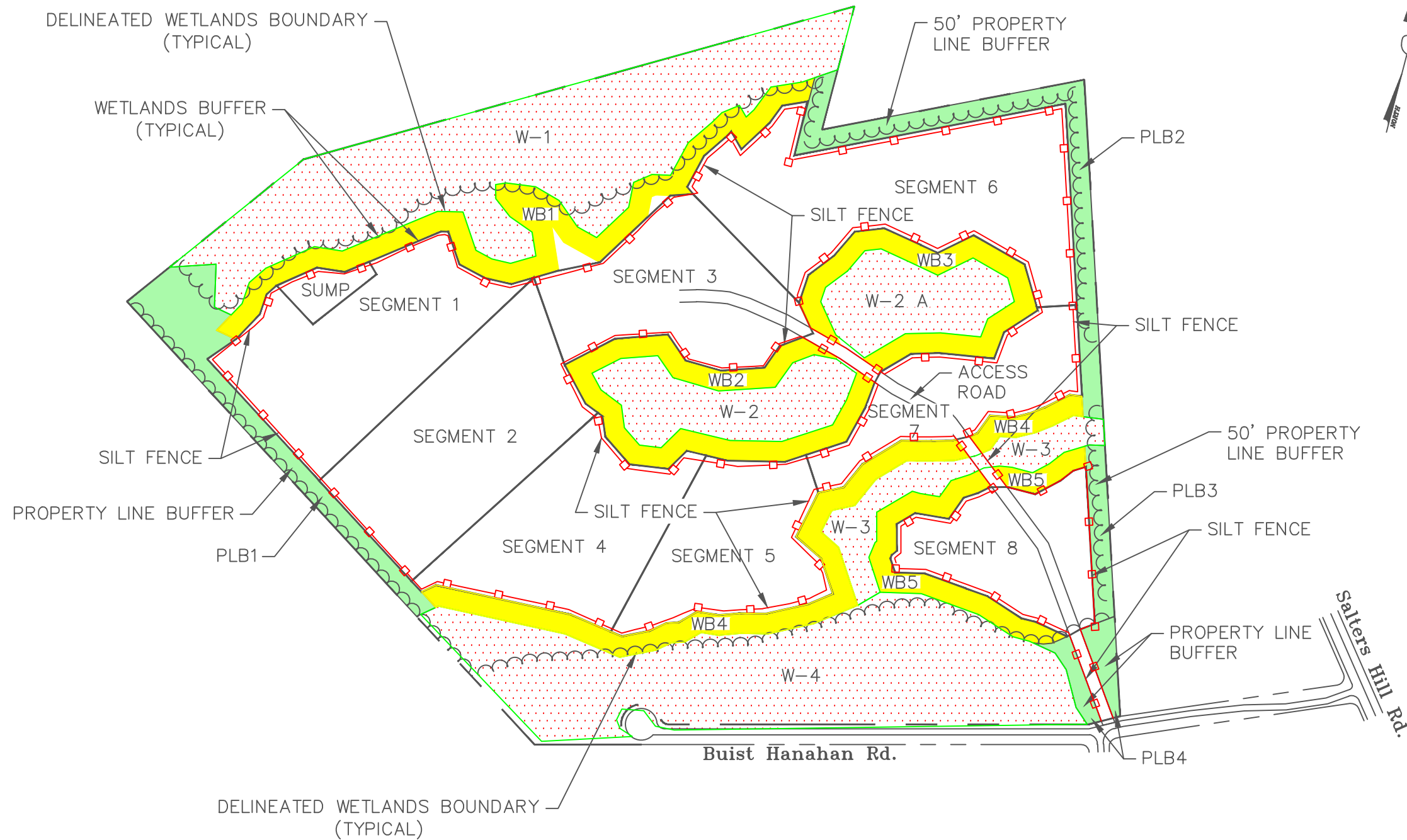
Bond Amount _____ Blanket or Single Bond Permit Issuance Date _____

ACTION TAKEN ON THIS RECLAMATION PLAN

_____ Approved _____ Denied _____ Approved with Additional Terms and Conditions

By: _____
DIVISION DIRECTOR

Date: _____



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

BY Jeremy E. Eddy
 TITLE SM2209-IV2
 DATE APPROVED January 11, 2023
 PERMIT NO. I-002209

NOTE: PRIMARY STORMWATER CONTROL WILL CONSIST OF ROUTING STORMWATER FROM MINE DISTURBANCES INTO THE OPEN PIT USING DIVERSIONS. STORMWATER WILL BE EITHER CONTAINED AND/OR DISCHARGED THROUGH NPDES OUTFALL.

COMBINATION OF SILT FENCE AND/OR BRUSH BARRIERS WILL BE USED TO TRAP SEDIMENT WHERE STORMWATER RUNOFF CANNOT BE DIVERTED INTO THE OPEN PIT.

Kennedy Consulting Services, LLC
 Craig Kennedy, P.G.

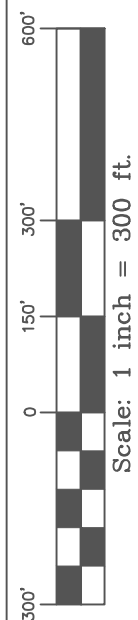
KCS

Office:
 403 Seaside Court
 Lexington, SC 29072
 P.O. Box 364 Irmo, SC 29063
 Tel. (803) 399-1133
 Cell (803) 960-2562
 craigkennedy.KCS@gmail.com

Buist Mine Map

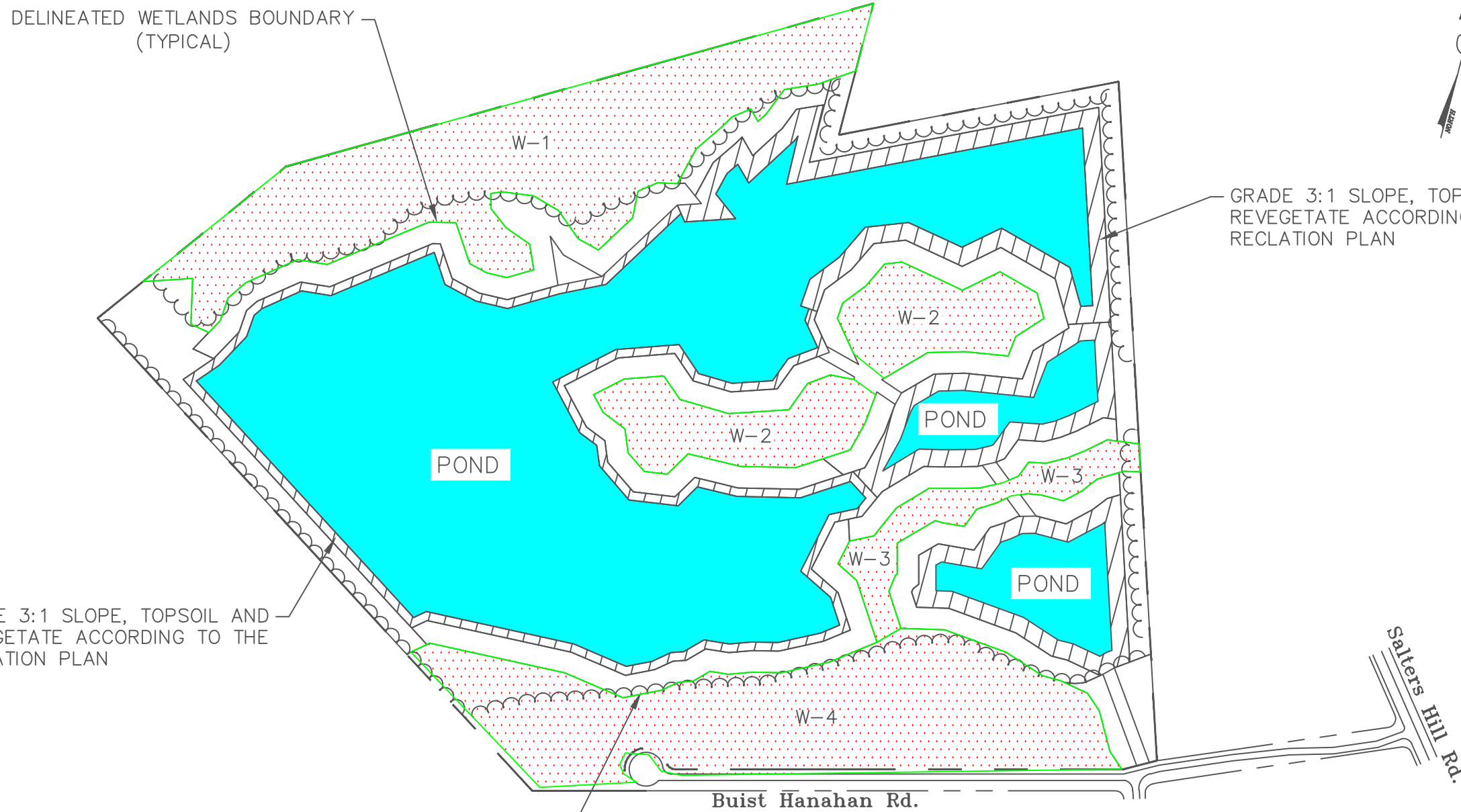
Prepared for
Allston Farrell LLC

Charleston County, South Carolina



No.	Revision	Date	By
1	ADD NEW WETLAND AREAS AND REVISED WETLAND NUMBERS	8/1/18	RCK
2	ADJUST PIT BOUNDARIES	8/1/18	RCK
3	ADD SEGMENTS 6-8; MOD 22-1	9/13/21	RCK
Project No. KCS 16-21		Date: 1/15/18	
Approved by: RCK		Drawn by: BC	
Sheet No. 1 of 2			

DELINEATED WETLANDS BOUNDARY
(TYPICAL)



GRADE 3:1 SLOPE, TOPSOIL AND
REVEGETATE ACCORDING TO THE
RECLATION PLAN

GRADE 3:1 SLOPE, TOPSOIL AND
REVEGETATE ACCORDING TO THE
RECLATION PLAN

DELINEATED WETLANDS BOUNDARY
(TYPICAL)



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

BY Jeremy E. Eddy
TITLE RM2209-1V2
DATE APPROVED January 11, 2023
PERMIT NO. I-002209

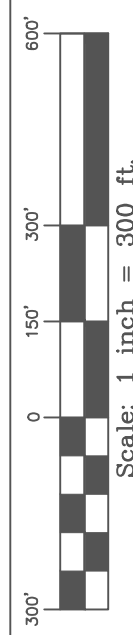
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Craig Kennedy, P.G.

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Cell (803) 960-2562
craigkennedy.KCS@gmail.com

Buist Mine
Reclamation Map

Prepared for
Allston Farrell LLC

Charleston County, South Carolina



No.	Revision	Date	By
1	Mod 22-1: Increased mined area	9/13/21	

Project No. KCS 16-21	Date: 1/15/18
Approved by: RCK	Drawn by: BC
Sheet No. 2 of 2	