

ROY COOPER

Governor

MICHAEL S. REGAN

Secretary

BRIAN WRENN

Acting Director



NORTH CAROLINA
Environmental Quality

March 25, 2020

Certified Mail

Return Receipt Requested

7014 0510 0000 4171 7831

Mr. Chad M. Threatt
Alamance Aggregates LLC
PO Box 552
Snow Camp, North Carolina 27349

RE: Proposed Alamance Quarry and Construction Materials Quarry
Alamance County
Cape Fear River Basin

Dear Mr. Threatt:

We have reviewed the application your company submitted for the referenced mine site. In order for this office to complete its review of the referenced project in accordance with GS 74-50 and 51 of the Mining Act of 1971, please provide the additional or revised information in accordance with the following comments:

1. Provide proof that your company has obtained the buffer authorization from the Division of Water Resources for impacts to the buffer from the access road and fencing.
2. Show the location of the monitoring wells and permanent seismograph locations on the Mine Map. In addition, show the dwelling and existing wells within the permit boundary.
3. Describe the traffic on the roadway that crosses the Colonial Pipeline. Provide details on any necessary measures needed to protect said roadway.
4. Provide a well water quality analysis for all wells located within 500 feet of the proposed pit limits. At a minimum the analysis shall include the following parameters:

radiological: radon, uranium, and gross alpha and gross beta



total and dissolved metals: Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc

microbiology: Alkalinity, Bicarbonate, Carbonate, TOC (Total Organic Carbon), Turbidity

nutrients: NH₃-N, NO₂+NO₃-N, Phosphorus Total as P, TKN (Total Kjeldahl Nitrogen)

wet chemistry: Bromide, Chloride, Fluoride, Silica, Sulfate, Sulfide, Total Dissolved Solids (TDS)

bacteria: total coliform & E.coli

5. Address the following erosion and sediment control measures:

- A. Generally speaking, the design for many sediment basins associated with this mine are not approvable due to poor placement, configuration, and non-adherence to standard sediment basin design.
- B. The basins need to be shown on the plans, in scale, along with all the measures.
- C. Placement of all the sediment basin details on one sheet has been problematic for review because the surrounding topography isn't really shown.
- D. Why are the match lines shown to be about half an inch wide on the plans? They are covering up topo and measures.
- E. Removal of the temporary crossing and other measures need to be addressed in the reclamation plan, if not already.
- F. They should address maintenance of measures in the crossing area since it is not typical of the rest of the site.
- G. They need to move the silt fence back from the tops of the stream banks to the maximum extent practical in the span culvert area.

In addition, address the following:

It is not acceptable for the emergency spillway to be in the first cell.
It is not acceptable for the skimmer to be located up the side slope. It creates a situation where the basin cannot drain to the floor.

Certified Mail
Mr. Threatt
Page Three

Regarding the skimmer basin design, 18 of the 29 basins are designed such that the baffles run the length of the basin, resulting in short flow paths. There are several instances where it is difficult to determine if the basin design is acceptable given scale of the drawings when including each of the basins on a single sheet, and there is no difference in the line used for basin contours and baffles.

Basin 1: The outlet of the slope drain appears to be placed on top of the first baffle and flow into the second cell

Basin 2: The outlet of the slope drain appears to be placed on top of the first baffle and flow into the second cell, and the baffles are right on the contours such that there is no storage on the bottom of the basin in the first and last cell.

Basin 3: The outlet of the slope drain appears to be placed on top of the first baffle and flow into the second cell

Basin 4/5: The ditch design appears to bypass the basin

Basin 8: The diversion is shown conveying flow into the second cell

Basin 9: The diversion appears to convey flow right onto the baffle between the first and second cell

Basin 11: A diversion is shown to convey flow into the third or fourth cell

Basin 12: The baffles are right on the contours such that there is no storage on the bottom of the basin in the first and last cell.

Basin 14: The baffles are very close to the contours such that there is very little storage on the bottom of the basin in the first and last cell. Cells should be 25% each.

Basin 15: The baffles are very close to the contours such that there is very little storage on the bottom of the basin in the first and last cell

Basin 18: The ditch design appears to bypass the basin

Basin 20: Flow appears to be conveyed into second cell

Basin 22: The diversion appears to be conveyed right onto the baffle between the first and second cell

Basin 26: The diversion appears to convey flow just before the first baffle.

Basin 28: The diversion appears to run through the emergency spillway.

Basin 29: The diversion appears to convey flow just before the first baffle.

Please be advised that our review cannot be completed until all of the items listed above have been fully addressed. In addition, please note this office may request additional information, not included in this letter, as the mining application review progresses.

In order to complete the processing of your application, please forward **two (2)** copies of the requested information to my attention at the following address:

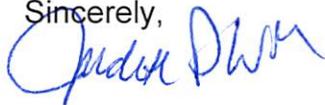
Certified Mail
Mr. Threatt
Page Four

Division of Energy, Mineral and Land Resources
Department of Environmental Quality
1612 Mail Service Center
Raleigh, NC 27699-1612

As required by 15A NCAC 5B.0113, you are hereby advised that you have 180 days from the date of your receipt of this letter to submit all of the requested information. If you are unable to meet this deadline and wish to request additional time, you must submit information, in writing, to the Director clearly indicating why the deadline cannot be met and request that an extension of time be granted. If an extension of time is not granted, a decision will be made to grant or deny the mining permit based upon the information currently in the Department's files at the end of the 180-day period.

Though the preceding statement cites the maximum time limit for your response, we encourage you to provide the additional information requested by this letter as soon as possible. Your prompt response will help us to complete processing your application sooner.

Please contact me at (919) 707-9220 if you have any questions.

Sincerely,


Judith A. Wehner
Assistant State Mining Specialist

Enclosures

cc: Ms. Tamera Eplin, PE