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North Carolina Department of Environment and Natural Resources  
Division of Water Resources

Pat McCrory  
Governor

Thomas A. Reeder  
Director

John E. Skvarla, III  
Secretary

May 13, 2013

Mr. Nuwan Wijesuriya  
Martin Marietta Materials, Inc. (Vanceboro Quarry)  
PO Box 30013  
Raleigh, NC 27622-0013

Subject: Draft CCPCUA Permit No. CU3148

Dear Mr. Wijesuriya:

Attached for your review is a copy of the public notice and draft permit for your water use activity in the Central Coastal Plain Capacity Use Area, as described in your application received June 26, 2012.

Please read the draft permit carefully. The permit for your facility includes monthly reporting of water withdrawals and water levels in accordance with Sections I. C, II. B, IV. A, and IV. B. In addition to the monthly reporting your permit will also require yearly chloride sampling in accordance with Section II. C. Permits are generally issued for five (5) years. If you have any questions or comments concerning the conditions of the proposed permit, please contact me at (919) 707-9008.

Sincerely,

Gabrielle Chianese  
Hydrogeologist

Enclosure



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## Public Notice

### **Central Coastal Plain Capacity Use Area Draft Permit**

Notice is hereby given of proposal to issue a permit modification for water withdrawals in the Central Coastal Plain Capacity Use Area (CCPCUA).

This permit would allow Martin Marietta Materials, Inc. (Vanceboro Quarry located off of Blount Creek Rd), with draft permit # CU3148, to withdraw and use a maximum of 12,000,000 gallons of water per day from the Surficial/Castle Hayne aquifers in Beaufort County for the purpose of mine dewatering. The withdrawn water will be disposed of by outfalls discharging to Blounts Creek (currently in process of obtaining NPDES permit).

Water withdrawals will be measured by an approved measuring device. Additionally, any changes in ground water quantity or water quality due to permitted withdrawals will be reviewed and alternate pumping levels may be established. The permittee shall be required to submit monthly reports of metered withdrawals and measured water levels, and the permit may be revoked if there are any violations of permit conditions.

The draft permit and supporting documentation is available for review during normal business hours at the Division office in the Archdale Building at 512 North Salisbury Street in Raleigh, North Carolina (phone: 919-707-9000).

This proposed permit shall become final unless, within 18 business days of issuance of this notice which is no later than June 6, 2013, a request for a hearing is made. Any water user wishing to contest the proposed action may be entitled to a hearing upon a timely request. The request, with valid substantiation for a hearing, should be submitted to:

Division of Water Resources  
Department of Environment & Natural Resources  
1611 Mail Service Center  
Raleigh, NC 27699-1611  
Attention: Capacity Use Administration

5/13/2013

Date

Nathaniel C. Wilson, Chief

Ground Water Management Branch

**North Carolina  
Environmental Management Commission  
Department of Environment and Natural Resources**

**Permit For The Withdrawal And Use Of Water  
In The Central Coastal Plain Capacity Use Area**

In accordance with the provisions of Part 2, Article 21 of Chapter 143, General Statutes of North Carolina as amended, and any other applicable Laws, Rules and Regulations,

**Permission Is Hereby Granted To**

Martin Marietta Materials, Inc. (Vanceboro Quarry)

FOR THE

Withdrawal and Use of Water in Beaufort County, North Carolina in accordance with the grantee's application dated June 25, 2012, and any supporting data submitted with the application, all of which are filed with the Department of Environment and Natural Resources and are considered part of this Permit.

This Permit shall be effective from the date of its issuance until June 30, 2018, and shall be subject to the specified conditions and/or limitations contained in Sections I - X of this Permit.

Permit issued this the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

BY \_\_\_\_\_

**Thomas A. Reeder  
Director, Division of Water Resources**

By Authority of the Secretary of the Department of Environment and Natural Resources

**PERMIT # CU3148**

## I. WITHDRAWALS

### A. USE

This Permit allows the withdrawal of water for the purpose of mine dewatering.

### B. SOURCE(S) AND RATES OF WITHDRAWALS

The maximum quantity of water that may be withdrawn from sumps in the Surficial/Castle Hayne aquifer shall not exceed 12,000,000 gallons per day (gpd).

### C. MONITORING OF WITHDRAWALS

Withdrawals from each source, whether well or sump, shall be measured by an approved metering device equipped with a totalizing indicator, and having an accuracy within plus or minus five percent.

## II. WATER LEVELS AND CHLORIDE SAMPLING

### A. MAXIMUM DRAWDOWN LEVELS

1. Pump intakes for the well(s) shall not be set below the depth specified in the permit application or associated documentation without prior approval of the Division of Water Resources.
2. In the event that data from the permitted wells or other wells within the zone influenced by pumping of the permitted wells indicates a deterioration of quality or quantity in surrounding aquifers or the source aquifer, an alternate maximum pumping level may be established by the Division of Water Resources.

### B. MONITORING OF WATER LEVELS

1. Monitoring wells (3 wells at 5 stations) discussed in the April 8, 2013, shall be completed 6 months prior to the beginning of dewatering operations. Monthly reporting shall start upon completion of each monitoring well.
2. The pumping water level in the pit shall be measured once a month:
  - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
  - b. within accuracy limits of plus or minus one percent,
  - c. just prior to shutting off the pump, or after sufficient time of pumping, so that a maximum drawdown may be obtained, and
  - d. during the last planned pumping day of the month, or within the last five days of the month.
3. The static water level in each monitoring well at the approved 5 monitoring

stations shall be measured once a month:

- a. by a steel or electric tape from a fixed reference point, or by using the air-line method
  - b. within accuracy limits of plus or minus one percent,
  - c. after the pump is shut off for approximately 12 hours, and
  - d. within the last five days of the month.
4. Unused supply wells or other suitable wells that may be available shall be monitored when such monitoring is specified by the Division of Water Resources and when pertinent to observation or evaluation of the effects of withdrawals made under this permit.
5. In the event that data from the monitoring wells or other wells within the zone influenced by pumping of the permitted wells/sumps indicates a greater cone of depression in the the source aquifer than depicted in the model (Figure 2 in April 8, 2013 correspondence), additional monitoring wells at a greater distance from the mine will be required.

### **C. MONITORING OF CHLORIDES**

Chloride sampling for each well shall be performed once a year in September or October and analyzed by a State certified laboratory. Analytical results from the Chloride Concentration Analysis shall be submitted to the Division of Water Resources not later than November 30 of each year.

## **III. OTHER PROVISIONS**

### **A. WELL CONSTRUCTION APPROVAL**

No new wells shall be constructed without prior approval from the Director of Water Resources. A Well Construction Permit shall be required prior to the construction of any well that will be used to withdraw any portion of the water regulated under this Permit. Application for the well construction permit must be submitted to the Washington Regional Office, Division of Water Quality, 943 Washington Square Mall • Washington, NC 27889. A copy of the Well Construction record (GW-1) shall be submitted to the Division of Water Resources and the Division of Water Quality within 30 days upon completion of the well construction.

### **B. ACCESS TO FACILITIES**

The Environmental Management Commission and employees of the Department of Environment and Natural Resources shall have reasonable access to areas owned and under control of the permittee for observation and inspection of water use and related facilities pertinent to the provisions of this permit and other regulations.

### **C. WELL INTERFERENCE PLAN**

Any complaints received about impacts to wells caused by mine dewatering activities shall be reported to the Division immediately along with follow-up status documentation. The Martin Marietta Materials, Inc.'s "Water Supply Response Plan" contained in the April 8, 2013 documentation associated with the June 25, 2012 permit application shall be followed.

## **IV. REPORTS REQUIRED**

### **A. WITHDRAWALS**

Monthly reports of daily withdrawal totals from each well or sump shall be furnished to the Division no later than 30 days after the end of each calendar month.

### **B. WATER LEVELS**

Water level measurements for each supply or monitoring well shall be measured in accordance with Condition II. B. 1. of this permit and submitted to the Division not later than 30 days after the end of the calendar month in which the measurement was taken.

## **V. MODIFICATION OR REVOCATION**

### **A. MODIFICATION**

1. The Permittee must notify the Director of any proposed major changes in usage and apply for a modification of the permit for such changes or for any revisions of the terms of this permit.
2. The Director may modify the terms of the permit, after 60 days written notice to the permittee, if he finds that the terms of the permit and/or the resulting water use are found to be contrary to the purposes of the Water Use Act of 1967 or contrary to public interest or having an unreasonably adverse effect upon other water uses in the capacity use area. Modifications may include, but are not limited to, requirements for alternate pumping levels or the collection, analysis, and reporting of ground or surface water quality samples.

### **B. REVOCATION**

The Director may revoke the permit if he finds that:

1. the Permittee has violated the terms of the permit; or
2. the terms of the Permit and/or the resulting water use are contrary to the purpose of the Water Use Act of 1967 or contrary to the public interest or having an

unreasonably adverse effect upon other water uses in the capacity use area and cannot be cured by modification; or

3. the Permittee made false or fraudulent statements in the application for the water use permit; or
4. water withdrawn under the terms of the permit is used for purposes other than those set forth in the permit.

## VI. CONSTRUCTION OF PERMIT

- A. The terms and conditions shall not be construed to relieve the Permittee of any legal obligation or liability, which it owes or may incur to third parties as the result of the conduct of its operations in conformity with this Permit.
- B. When under the terms hereof, any provision of this Permit requires approval of the Department or becomes effective at the discretion of the Department, the notice of approval or the exercise of such discretion shall be evidenced by written instrument issued by the Department.
- C. The terms and conditions of this Permit shall not be construed as a limitation of the powers, duties, and authority vested in the Environmental Management Commission or any other State, Federal, or local agency, or any applicable laws hereafter enacted.

## VII. ADDITIONAL CONDITIONS

- A. This Permit shall be subject to any limitations or conditions in other State permits, including but not limited to permits required pursuant to North Carolina General Statutes §143-215.1.
- B. Issuance of this Permit shall have no bearing on subsequent State decision(s) regarding any other water use or other permit application(s) submitted or which may be submitted by the Permittee, its successors or assigns.
- C. Compliance with the terms and conditions in this permit does not relieve the permittee of compliance with any provision, now in force or hereafter enacted or promulgated, of the Water Use Act of 1967, the regulations promulgated thereunder, or any other provision of State law.

## VIII. PENALTIES

Violations of the terms and conditions of this Permit are subject to penalties as set forth in North Carolina General Statutes §143-215.17.

**IX. PERMIT NONTRANSFERABLE**

Water Use Permits shall not be transferred except with approval of the Environmental Management Commission.

**X. RENEWAL OF PERMIT**

The Permittee, at least three (3) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

**DRAFT**