NOTICE OF PERMIT CORRECTION

Hercules Cement Company, LP
d/b/a Buzzi Unicem USA
PO Box 69
Stockertown, PA 18083-0069

Re: Surface Mining Permit Application No. 7473SM2A1C21
    Authorization to Mine No. 6777-7473SM2A1C21-05
    Stockertown Quarry Operation
    Stockertown Borough, Upper Nazareth and Palmer Twps., Northampton County

Ladies and Gentlemen:

The above-referenced permit is hereby corrected to fix a typographical error in the Part B Special Conditions. Enclosed please find the corrected Part B Special Conditions.

The enclosed information shall be considered an addendum to the original permit issued June 19, 1974 and any subsequent revisions or corrections. This information is to be filed with your copy of the original permit and, in case of any conflicts with the original permit, shall take precedence over the original permit information.

Should you have any questions, please contact this office.

Sincerely,

Michael Kutney, P.G.
Licensed Professional Geologist
District Mining Operations

Enclosures

cc: Gary A. Latsha, SMCIS
    Christian Kuba, SMCI
    Ross Klock, Blasting Inspector
    Consultant, EarthRes Group, Inc.
    Municipalities of Upper Nazareth & Palmer Twps. & Stockertown Boro.
    County of Northampton
    File
    MS1-Hercules C21 (3/15)
PART B
NONCOAL SURFACE MINING PERMIT NO. 7473SM2A1C21
Hercules Cement Co., LP
d/b/a Buzzi Unicem USA
Stockertown Quarry Operation
SPECIAL CONDITIONS OR REQUIREMENTS

The following special condition or requirements are hereby incorporated into the permit and represent permit conditions.

1. If, in the course of mining, the Department determines that the approved blasting plan, or portions thereof are insufficient to ensure adequate protection of public health, safety or the environment, including existing adjacent land and stream uses, the Department may cease blasting until a corrected blasting plan is approved by the Department.

2. If, during the course of mining, the permittee pollutes, degrades or in any manner destroys the water quality in Bushkill Creek or Schoeneck Creek, mining activities under this revised permit and related or contributing to the pollution shall cease until (a) the pollution caused by the permittee has been abated or (b) the permittee has signed an agreement with the Department incorporating a plan and schedule for such abatement.

3. The Department reserves the right to direct the permittee to modify its plan of mining should the Department show that geologic conditions are such as to require a change in the operator's plan of mining in order to prevent pollution.


5. There shall be no discharge of process-generated wastewater unless the NPDES permit and the mining permit are revised to reflect the change.

6. Permission to construct safety berms within 100 feet of Rt. 191 and 300 feet of the occupied dwellings in the northwest and western portion of the operation as shown on the maps remains in effect. Only overburden material shall be used for construction of the berm. The berm shall be vegetated to prevent erosion. The berm shall be removed in conjunction with final reclamation unless otherwise approved by the Department. The permittee is authorized to continue such support activities as existed within 100 feet of Rt. 191 prior to the effective date of Act 219 as allowed in Section 11 (C)(2)(ii), Distance Limitations, of the Noncoal Surface Mining & Reclamation Act 1984-219. The permittee must remain 300 feet away from any dwelling in the southwestern corner unless waivers from the owners are obtained. Nothing herein shall prohibit the permittee from using berms or material stockpiles, if properly vegetated and protected from erosion.

7. Operations on the east side of Bushkill Creek are not part of this Surface Mining Permit. The crushing plant on permit is considered support-related activities.

8. The haul road located within 100 feet of Bushkill Creek (east end) may be utilized in support of quarry activity, as this road was in existence prior to January 1, 1972. The permittee is authorized to continue such support activities as existed within 100 feet of Bushkill Creek prior to the effective date of Act 219 as allowed in Section 11 (C)(2)(ii), Distance Limitations, of the Noncoal Surface Mining & Reclamation Act 1984-219. The road is to be graded to divert surface drainage to the quarry and away from Bushkill Creek.

9. The permittee must remove or use all overburden or waste rock piles during reclamation unless written approval from the Department is received for any pile to remain.
10. The permittee must report how much overburden is sold each year. A report must be submitted to
the Pottsville District Office by January 30 of the following year and should include a calculation of
how much overburden is needed for reclamation and how much remains on site. A minimum of
6,047,185 cubic yards of overburden is to remain on site, available for reclamation at all times.

11. The permittee is required to pre-split the final working faces for stability purposes.

12. The permittee shall monitor wells for static water levels as described in the Part B – Addendum
(Self-Monitoring Requirements).

13. The permittee shall monitor the pit sump water as described in the Part B – Addendum (Self-
Monitoring Requirements).

14. The permittee shall monitor the Bushkill Creek as described in the Part B – Addendum (Self-
Monitoring Requirements).

15. The flocculent/coagulant system used to treat the pit water prior to discharge shall be maintained
and remain capable of operation at all times. The system must be utilized at a minimum whenever
cloudy or sediment-laden water occurs in the pit area.

16. Any change to the current dewatering system or pit water treatment system (ponds, pumps, etc.)
must be submitted to the Department for approval. The Department must issue written approval for
any major change prior to any changes taking place at the site. However, for a minor change or in
an emergency situation, the permittee shall notify the Surface Mine Conservation Inspector and/or
the Pottsville District Office of the immediate change for verbal confirmation.

17. The permittee must report the volume of water discharged from this mining permit to the Bushkill
Creek under the NPDES Permit reported in average gallons per day over the month. The results
are to be submitted quarterly to the Pottsville District Mining Office no later than 30 days after the
last day of the quarter along with the NPDES report and groundwater monitoring report.

18. The permittee must notify the Pottsville District in the event of cessation of NPDES discharge. If it is
an emergency shutdown, the permittee should notify the Department as soon as possible. The
permittee is also required to follow the call list previously established in September 2001. The
permittee shall maintain the call list and be responsible for updating contact information. The
individual contact given is suggested but the permittee may inform a designated representative or
the successor for the organization listed.

19. Except as provided in subparagraph (f) below, the permittee shall continue weekly visual
inspections of sinkhole prone areas within Zone One and Zone Two on the Map delineated Figure
11A (dated January 18, 2008) and attached hereto, for the appearance of new or reactivated
sinkholes. The procedures for addressing a new or reactivated sinkhole shall be as follows:

   a. Zone One/property not under permittee control: If the permittee discovers an active sinkhole
      (i.e., a noticeable surface depression caused by a collapse of a portion of soil or rock material
      below it, where, due to its particular location, directly threatens public health or safety, a private
      dwelling, structure or the environment) the permittee shall take action to repair it, unless it can
      be shown that the sinkhole(s) is related to some other factor, a man-made feature or activity or
      significant overlap of the hydrologic zones of influence of adjacent water withdrawal sources.
      The permittee shall notify the Department of the situation and submit a schedule for repair of
      the sinkhole within three (3) business days of identification/delineation of the problem (nothing
      herein shall be construed as prohibiting permittee from immediately effecting repairs). Repair
      of the sinkhole shall begin immediately upon Department approval after meeting any other
governmental permitting requirements, if applicable, and after obtaining required third-party
access needed to effect the work (permittee shall promptly and diligently pursue access
authorization from any third party). The permittee shall promptly notify the Department of any
problems it is experiencing in its efforts to obtain access to private property to implement the
requirements of this condition. The Department will consider any disputes or alternative plans
with regards to the permittee fulfilling obligations of this condition, including any arrangement
between the permittee and the third-party property owner with respect to the disposition of the sinkhole in question.

b. Zone One/permittee-controlled property: If the permittee discovers a sinkhole (as defined in (a) above) within permittee-controlled property, it shall notify the Department of the occurrence of the sinkhole, and should begin repair as soon as possible after meeting any other agency permitting requirements, if applicable.

c. Zone Two: Within twenty (20) days of discovering or receiving from a governmental authority written notice (which shall include email) of an active sinkhole (as defined in (a) above) within Zone Two on Figure 11A hereto, the permittee shall have a licensed geologist or licensed engineer conduct an evaluation of the occurrence of the sinkhole and submit a written report to the Department with respect thereto, including identification of the cause of the sinkhole, if reasonably ascertainable. Such report shall not constitute an admission against interest on the part of the permittee and the report developed hereunder shall not bind the Department or permittee in any respect. Nothing herein shall limit or prohibit the Department from conducting its own investigation or taking any action it deems necessary with respect to the repair of such sinkhole.

d. Zone Three: With respect to the repair of sinkholes (as defined in (a) above) within Zone Three on Figure 11A hereto, permittee has agreed voluntarily to make available, free of charge to any third party effecting the repair of such sinkhole, the unprocessed rock/clay mix of fill material utilized by permittee to fill sinkholes on its property. The permittee's obligation hereunder is to supply material (up to four 15-yard loads per sinkhole) to such third party, at permittee's place of business during normal business hours (M-F, 8 a.m. to 5 p.m., subject also to the reasonable availability of permittee's equipment and personnel), and to load such material into dump trucks supplied by such third party. Nothing herein is intended, nor shall it be construed as imposing upon permittee any obligation or duty to inspect the safety or road-worthiness of vehicles presented to it for loading hereunder; in this respect, permittee shall have the right, but not the obligation, to refuse to load any vehicle it deems unsafe, undersized, or not roadworthy.

e. Nothing herein is intended, nor shall it be construed as creating or vesting in any third party any legal rights, or third-party beneficiary status, nor shall the requirement that the permittee remEDIATE any sinkholes hereunder constitute a waiver or limitation on any legal rights, defenses or claims the permittee may have as respects any third parties, its insurance, or any contracts or agreements between the permittee and any third party, including any contracts to repair or forego repair of any sinkhole.

f. Bushkill Creek Inspections: The permittee shall continue to visually inspect the Bushkill Creek not less than five (5) days per week, weather permitting, for the appearance of new or reactivated sinkholes. If new or reactivated sinkholes are observed, permittee shall promptly report the discovery to the Department's Pottsville District Office and take action as provided herein. Such enhanced inspection obligation shall apply to the Bushkill Creek from the S.R. 191 Bridge to the confluence of the Little Bushkill Creek.

g. Future development within Zone One: Areas not currently under the control of permittee within Zone One that are subsequently subjected to major earth or surface or ground water disturbances, associated new or expanded property use shall be converted to Zone Two areas upon permittee's submission of a revised Figure 11A showing the revised Zone boundaries; permittee's proposed revised boundaries of the Zones shall be subject to Department approval, which shall not be unreasonably withheld or delayed.

20. The permittee shall vegetate areas affected by sinkhole repair activities within the current or next planting season.

21. The final depth of mining elevation approved (under permit revision no. 7473SM2ATC) is 0 feet mean sea level (MSL) as shown on cross section drawing "Bench-01" dated 10-20-1999. If the permittee wishes to mine to additional depth, a major revision to the permit including public notice must be filed with the Department. The permittee may advance mining to 0 feet MSL in three (3)
step-phases of 50 feet each, as provided herein. The permittee may proceed with quarry
development to 100 feet (30.5 m) MSL (with the exception of a sump area authorized to be
maintained at 30 feet below the approved floor elevation). The permittee may proceed to lower the
quarry elevation by each subsequent 50 foot step-phase only after providing to the Department the
following: (a) not less than 60-days written notice of intent to commence work to lower the quarry
elevation by the next 50 foot bench; and (b) an updated groundwater report, which shall include a
review of groundwater monitoring and pumping data, as well as a list of sinkholes that have been
identified within the Zone of Influence since issuance of this revision, and an assessment of the
integrity of the existing highwalls. The permittee must have mined to sufficient lateral extent to
gather enough data to determine hydrological effect for that level before requesting to develop the
subsequent level unless otherwise approved in writing by the Department. The Department
reserves the right to disallow lowering the quarry elevation approved hereunder for each 50 foot
step-phase based upon its consideration of the above notice and submissions or other relevant
information, including information obtained from other hydrogeologic studies conducted in the area
(i.e. Growing Greener fund projects, US Army Corps of Engineers, US Geologic Service studies,
etc.), as well as the permittee’s compliance history. If the information considered shows that the
permittee is progressing satisfactorily and is in compliance, the Department shall grant written
approval that mining of the next 50-foot lift may proceed. The Department may request interim
groundwater reports as circumstances warrant.

22. The permittee is required to update the Operations map, which includes an update to the operation
plan, every two (2) years by the anniversary of the original permit issuance of June 19. The map
shall include revised topography to show the extent of mining. The first update is due on or before

23. Regarding final wall blasting per Application No. 7473SM2A1C21 dated August 22, 2014:

a. All final wall blasts will have pre-split and/or smooth wall blasting techniques utilized. These
   blasts will be performed in a manner that complies with the operator’s approved Module 16
   blasting plan.

b. Meetings will be held approximately every six (6) months by all parties (operator, blasting
   contractor, geologic consultant and drilling contractors) who are involved with final wall blasting,
   so as to review results, discuss improvements and address any issues that may occur. The
   Department may attend these meetings if it so chooses. The first of these meetings shall be
   held approximately six (6) months after final wall blasting per Application No. 7473SM2A1C21
   is initiated.

c. The Department will be notified concerning any deviations from procedures described in the
   “Final Wall Blasting” report as applied to final wall blasting.

d. If any new blasting techniques and/or new products are to be used for final wall blasting, a test
   blast will be conducted in an area of the quarry which is not a final wall. The results of test
   blasts will be monitored, described and reported to the Department for final review and
   approval.

e. All blast reports for final wall blasts will be marked clearly when completed by the blaster-in-
   charge.

24. The permittee is authorized to conduct surface mining activities within 300 feet, but no closer than
zero (0) feet, of the following occupied dwelling(s) owned by RC Lonestar, Inc. The written waivers
are contained in the permit application and the variance area is shown on Exhibit 9: Operations Map
dated November 13, 2014.

a. 24 Eley Street, Nazareth, PA 18064
b. 39 Meyers Street, Nazareth, PA 18064
c. 486 East Lawn Avenue, Nazareth, PA 18064
d. 43 Meyers Street, Nazareth, PA 18064
PART B ADDENDUM
SELF-MONITORING DATA REQUIREMENTS
Hercules Cement Company, LP dba Buzzi Unicem USA
Surface Mining Permit No. 7473SM2A1C21

The following self-monitoring data is required for this permit. No fax copies will be accepted. For water samples, lab sheets should be submitted along with the appropriate Department forms. All data shall be submitted to the Pottsville District Mining Office at the following address:

Department of Environmental Protection
Pottsville District Mining Office
5 West Laurel Boulevard
Pottsville, PA 17901-2522

Monitoring wells – static water elevations to be measured monthly

<table>
<thead>
<tr>
<th>MW-1</th>
<th>MW-6-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-2</td>
<td>MW-7-07</td>
</tr>
<tr>
<td>MW-3</td>
<td>B-1</td>
</tr>
<tr>
<td>MW-4</td>
<td>B-4S Shallow</td>
</tr>
<tr>
<td>MW-6R2</td>
<td>B-4S Deep</td>
</tr>
<tr>
<td>MW-8</td>
<td>K-6S</td>
</tr>
<tr>
<td>MW-1-07</td>
<td>H-7S Shallow</td>
</tr>
<tr>
<td>MW-2-07</td>
<td>H-7S Intermediate</td>
</tr>
<tr>
<td>MW-3-07</td>
<td>H-7G Deep</td>
</tr>
<tr>
<td>MW-4-07</td>
<td>H-8</td>
</tr>
<tr>
<td>MW-5-07</td>
<td></td>
</tr>
</tbody>
</table>

Monitoring shall be done monthly (at least 20 days apart) with the results submitted quarterly to the Pottsville District Office. Data shall be submitted as “static water elevations” with the units “feet above mean sea level (MSL).” The results shall be submitted no later than 30 days after the end of the calendar quarter. If any monitoring well becomes inaccessible or fails, the permittee must notify the Department within that calendar quarter to discuss means to replace the monitoring point. The Department may request additional monitoring wells to be drilled or other existing wells to be monitored, if conditions warrant.

The permittee shall provide access to these wells to any authorized representative of the Department for purposes of taking water level measurements or collecting samples for chemical analysis. The permittee may be required to collect water samples for chemical analysis of relevant water quality parameters, as warranted, when adequate notice is given to the permittee.

Monitoring wells – static water elevations to be measured by transducer

<table>
<thead>
<tr>
<th>DEP-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP-2</td>
</tr>
<tr>
<td>DEP-3</td>
</tr>
<tr>
<td>DEP-4</td>
</tr>
<tr>
<td>DEP-6</td>
</tr>
<tr>
<td>B-4</td>
</tr>
</tbody>
</table>
Transducers shall be maintained in these wells with static water elevations recorded at no greater than one-hour intervals. Static water elevation data shall be submitted monthly to the Pottsville District Office. Data shall be submitted as "static water elevations" with the units "feet above mean sea level (MSL)". The results shall be submitted no later than 15 days after the end of each month. If any monitoring well becomes inaccessible or fails, the permittee must notify the Department within that calendar quarter to discuss means to replace the monitoring point. The Department may request additional monitoring wells to be drilled or other existing wells to be monitored, if conditions warrant.

Pit sump monitoring - water elevations
Hercules Pit 14F water elevation
Drop Cut 15F water elevation

Monitoring shall be done daily with the results submitted weekly to the Pottsville District Office. Data shall be submitted as "water elevations" with the units "feet above mean sea level (MSL)".

Pit sump monitoring – discharges in million gallons per day (MGD)
East Dam Discharge
14F Sump
15F Sump

Monitoring shall be done daily with the results submitted weekly to the Pottsville District Office. Data shall be submitted with the units "million gallons per day".

Stream monitoring
Streamflow in the Bushkill Creek at the upstream USGS monitoring station
Streamflow in the Bushkill Creek at the downstream USGS monitoring station

These streamflow gauges shall be maintained throughout the life of this Surface Mining Permit. Monthly streamflow averages shall be submitted quarterly to the Pottsville District Office. Data shall be submitted with the units "million gallons per day".

MS1-Hercules SC15