This notice announces an application submitted for a Department of the Army (DA) Permit, subject to Section 404 of the Clean Water Act:

APPLICANT: Jim Camp
Lafarge North America
RR 1 Box 267
Cave in Rock, IL 62919

AGENT: Justin Hastie
JDH Enterprises Inc.
RR 1 Box 166
Cave In Rock, IL 62919

LOCATION: Unnamed tributaries to Anthony Creek east of Cave In Rock, Hardin County, Illinois

PURPOSE: Expand an existing hard rock mine by opening reserves of limestone and sandstone required to meet customer needs for crushed stone.

Latitude: 37.4831 N
Longitude: 88.1156 W
7.5 Minute Quad: Repton, KY-IL and Cave-in-Rock, KY-IL

DESCRIPTION OF WORK: The Lafarge Cave In Rock Quarry has been operating since 1963 supplying basic raw materials for the Lafarge Joppa Cement Plant located 65 miles downstream on the Ohio River. The existing footprint of the quarry has not changed significantly in the past 20 years. As a result, the 12 working benches of the pit are critically narrow and the foot print of the quarry must expand to access adequate reserves to insure uninterrupted supply of crushed stone to the cement plant. The applicant proposes a 30 year mine plan to increase the footprint of the quarry by approximately 150 acres.

The project would extract limestone and sandstone using typical open pit mining practices. After harvesting the timber, the soil is stripped away and stockpiled with earth moving equipment. Below the soil layer, sandstone is then drilled, blasted, loaded into trucks and
hauled away to permitted spoil area for disposal. Removing the upper most sandstone exposes the cement quality limestone and sandstone below. All stone used for cement or aggregate would be drilled, blasted, loaded and hauled from the pit to the processing plant where the stone is crushed, sized, and stored waiting for shipment. A reclaim conveyor would transport crushed stone onto barges on the Ohio River for transportation to the Joppa Cement Plant or to other customers on the Ohio and Mississippi Rivers.

The project would directly affect approximately 1,964 linear feet of intermittent stream, 3,609 linear feet of ephemeral stream, and 0.056 acres of open water with 0.08 acres of fringe palustrine forested wetland.

AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES: Due to the nature of open pit mining, and the size, magnitude, and time frame of the project, it is not practical to avoid all impacts to "Water of the U.S." In order to avoid/minimize impacts, an inventory of wetlands, streams, and open waters was performed in 2006, 2011, and 2014 on the surrounding property controlled by Lafarge. In order to reduce impacts to multiple watersheds, the design of the mine footprint was narrowed to reduce impacts to one intermittent stream and its tributaries, as well as an adjacent pond with adjacent wetlands. The mine footprint would also avoid direct impacts and leave a 150-foot buffer to a downstream perennial stream.

Mitigation would be performed off-site; focusing on the restoration of an intermittent stream and re-creation of ephemeral streams. The off-site mitigation would be located within the twelve-digit HUC Peter Creek-Ohio River (051402030306), which is to the west of the impact area located in the Camp Creek-Ohio River (051402030303). The proposed off-site mitigation would involve the restoration of 2,178 feet of intermittent stream and the re-creation of 2,272 feet of ephemeral stream. Off-site streams were assessed using the Environmental Protection Agency Rapid Bio-assessment Protocol (RBP). Streams with RBP scores in the poor and marginal range were identified for this mitigation proposal. This would provide an opportunity through mitigation to increase their function and provide an overall stream quality improvement over existing conditions. The goal of the stream mitigation is to provide in-stream habitat and to construct stable stream systems that convey the bankfull discharge and sediment supplied by the watershed. For the mitigation streams, the improvement in stream quality would result from addressing bank erosion, installing in-stream habitat structures, and creating flood prone areas to promote overbank flooding where streams are currently entrenched. The intermittent stream would have a riparian zone width of at least 100 feet through the planting and minimizing impacts to the existing canopy. Ephemeral streams would have a minimum riparian zone width of 50 feet.
It is noted that this proposed mitigation plan is open to comment and subject to change. The Corps will make a determination of appropriate mitigation, upon review of all submitted information.

REVIEW PROCEDURES: A DA Permit cannot be issued if any legally required Federal, State, or local authorization or certification is denied. A DA permit, if otherwise warranted, will not be issued until a State of Illinois Water Quality Certification or waiver is on file at this office. In order to comply with Section 401 of the Clean Water Act, the applicant, by this notice, hereby applies for State certification from the Illinois Environmental Protection Agency (ILEPA).

Copies of this notice are sent to the appropriate Federal and State Fish and Wildlife Agencies. Their views and comments are solicited in accordance with the Fish and Wildlife Coordination Act of 1956. Based on available information, the proposed activity will not destroy or endanger any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act, and therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. A request for a public hearing must state the specific interest which might be damaged by issuance of the DA Permit.

The National Register of Historic Places has been examined, and it has been determined that there are no properties currently listed on the Register which would be directly affected by the proposed work. If we are made aware, as a result of comments received in response to this notice, or by other means, of specific archaeological, scientific, prehistorical, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 - Public Law 89-665 as amended (including Public Law 96-515).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered; among those are conservation, economics, aesthetic values, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use, navigation, recreation, water supply, water quality, energy needs, safety, food production, and in general, the needs and welfare of the public. In addition, the evaluation of the
impact of the activity on the public interest will include application of the guidelines (40 CFR Part 230) promulgated by the Administrator, United States Environmental Protection Agency, under authority of Section 404(b) of the CWA.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. It is presumed that all interested parties and agencies will wish to respond; therefore, a lack of response will be interpreted as meaning that there is no objection to the proposed project. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written statements received in this office on or before the closing date will become a part of the official record and will be considered in the determination on this permit request. Any objections which are received during this period will be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. A permit will be granted unless its issuance is found to be contrary to the public interest.

Information pertaining to this application is available for public examination during normal business hours upon prior request. Drawings are available on Louisville District's Internet site at http://www.lrl.usace.army.mil/Missions/Regulatory.aspx. All comments regarding this proposal should be addressed to Mr. Matt Dennis, CELRL-OPF-W at the address noted above and should refer to the Public Notice Number LRL-2013-907-mad.

If you desire to submit your comments by email, you must comply with the following:

a) In the subject line of your email, type in ONLY the Public Notice ID No. LRL-2013-907-mad.

   Example:
   
   Subject:  LRL-2013-907-mad

b) Provide your physical mailing address and telephone number.

c) Send your email to: lrl.regulatorypubliccomment@usace.army.mil.
d) If you are sending attachments greater than 1 Mb in size with your email, you must send a hard copy (CD or paper) to the Corps’ physical address as well.
## LAFARGE ROCK QUARRY SITE
### SUMMARY OF IMPACTS

<table>
<thead>
<tr>
<th>Site number</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Cowardin Class or Flow Regime</th>
<th>Drainage Area (ac.)</th>
<th>Impact Length or Acreage</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-12ds</td>
<td>37°29'4.1&quot; N</td>
<td>88°6'42&quot; W</td>
<td>Intermittent</td>
<td>117.42</td>
<td>1464 linear feet</td>
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<td>S-12 us</td>
<td>37°28'57.8&quot;N</td>
<td>88°7'0.3&quot; W</td>
<td>Intermittent</td>
<td>34.22</td>
<td>500 linear feet</td>
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<td>S-12</td>
<td>37°28'59.2&quot;N</td>
<td>88°7'4.2&quot; W</td>
<td>Ephemeral</td>
<td>14.43</td>
<td>920 linear feet</td>
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<tr>
<td>S-13</td>
<td>37°28'56.4&quot;N</td>
<td>88°6'50.4&quot; W</td>
<td>Ephemeral</td>
<td>32.48</td>
<td>600 linear feet</td>
</tr>
<tr>
<td>S-14</td>
<td>37°28'55.2&quot;N</td>
<td>88°6'53.4&quot; W</td>
<td>Ephemeral</td>
<td>21.61</td>
<td>1033 linear feet</td>
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<tr>
<td>S-15</td>
<td>37°28'53.8&quot;N</td>
<td>88°7'3.2&quot; W</td>
<td>Ephemeral</td>
<td>12.61</td>
<td>839 linear feet</td>
</tr>
<tr>
<td>S-Pond</td>
<td>37°29'6.2&quot; N</td>
<td>88°7'10.6&quot; W</td>
<td>Ephemeral</td>
<td>2.34</td>
<td>217 linear feet</td>
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<tr>
<td>Pond 04</td>
<td>37°29'07&quot; N</td>
<td>88°7'12.1&quot; W</td>
<td>Open water</td>
<td></td>
<td>0.056 acres</td>
</tr>
<tr>
<td>Wet A</td>
<td>37°29'07&quot; N</td>
<td>88°7'12.1&quot; W</td>
<td>PFO1E</td>
<td></td>
<td>0.080 acres</td>
</tr>
</tbody>
</table>

**Totals:**
- Intermittent = 1964 ft.
- Ephemeral = 3609 ft.
- Wetlands = 0.080 ac.
- Open waters = 0.056 ac.
LaFarge Rock Quarry Site
Proposed Stream Mitigation

Notes:
Existing Channel and Overbanks Area for Channels EI US, EI DS, and EI 2 shall be Completely
Regraded to Blend in With the Adjacent Floodplain.
Existing Trees, Shrubs and Vegetation Adjacent to
the Streams Shall be Grubbed and Cleared. A Moderate
Compactive Buffer Should be Applied to Areas Where
Existing Channel Beds are Tilled. Once these Are
Suﬃciently Compacted and Leveled the Proposed
New Channel Can be Constructed According to the
Plan Form, and Geometry Shown on Typical Meander
Patterns and Typical Riffle Cross Sections. Once
the channels are Constructed, Structures Shall Be
Placed in Accordance With the Typical Profile View.

Construct Rosgen Type 'B' Channel Between
B and D. See Typical Cross Section for 'EI US.'
Construct Entire Channel Below Flood Prone
Depth Shown on Cross Section.

Provide Smooth Transition for Channel and
Flood Prone Areas Above and Below Confluence

Create Minimum 2.5' Bench 1' Above Existing Streambed
Between 'A' and 'X.' See Typical Cross Section 'C.'

Notes:

General Notes:

Work on the Intermittent Stream Shall be Limited to the Right
Bank Where a Bench is Proposed. Access to the Stream May
be Along the Corridor Graded and Grubbed for the Bench
Excavation. Otherwise, Access Should be Limited to Only
That Needed to Place and Construct the Structures Shown.
Existing Trees With DBH (Diameter at Breast Height) Greater
Than 10" Shall be Left Undisturbed As Much as Possible.
All
Disturbed Areas Shall be Seeded and Trees Planted in Accordance
With the Riparian Zone Planting Note.

To Facilitate the Placement of Structures in the Intermittent
Channel, Existing Fallen Trees and Debris Should be Removed
From the Stream.

Where Small Field Drains Enter the Main Intermittent Stream,
Place Rock Rip Rap/Boulders From the Confluence to 20'
Upstream in the Tributary. Boulders Shall be Placed to Armor
the Banks to No More Than 1/2 Above the Existing Stream Bed
and Allow Flow to Cascade Through the Boulders. Forming a
Smooth Bed With Placed Boulders is Not Desirable.

Notes:

Between Station 0+00 to 3+00 Relocate the Existing
Stream as Shown Refer to the Intermittent 1 Typical Riffle
Cross Section for Dimensions for the Relocated Stream.

Tie the Relocated Stream to the Existing Stream Bed at the
Upstream Limit of the Relocated Stream Near Station 1+00.
Tie the Downstream Relocated Stream Bed to the Bottom
of the Existing Roadway Culvert Once Cleaned Out. Provide
a Constant Bed Slope for the Relocated Channel Defined by
the Stream Bed Elevations at Station 0+00 to Station 3+00
and the Distance From the Two Points Along the
Centerline of the Relocated Stream.

For the Channel Relocation Below Station 3+00 Plant
One Row of Trees Along the Right Bank. The Remainder
of the 100' Riparian Zone Shall be Created Along the Left Bank.

T.H.E.
Engineers, Inc.

Project: LaFarge Rock Quarry-Proposed Mitigation

Count: Marion
State: IL
Near: Cave in Rock

Item: Proposed Mitigation

Item: Aerial
Exhibit: 3