

LAUREL SAND & GRAVEL, INC. T/A
S.W. Barrick & Sons



Barrick Quarry

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February 14, 2020

Ms. Molly Michaelson
Minerals, Oil and Gas Division
Maryland Department of the Environment
1800 Washington Boulevard, Suite 655
Baltimore, MD 21230

Re: Barrick Quarry Renewal – 77-SP-0045

Dear Ms. Michaelson:

Please find enclosed a renewal application for the above referenced permit. The associated filing fee was paid on October 16, 2019 via check number 010334.

If you have any questions or need any additional information, please contact me at 410-792-7234 ext. 1120 or by email at Collin@aggmgt.com.

Sincerely,

Collin Sumpter
Resource Manager

Fee Schedule

\$12.00 x 282.41 acres (\$1,000.00 maximum fee) **Total Remitted:\$1,000.00**

Refer to invoice sent with renewal application

PCA -13743
Application and Recording Fees – Source Code 4131

Check or money order shall be payable to Maryland Department of the Environment. Refunds will not be made if an application is denied. The application and filing fees should be sent to:

Maryland Department of the Environment
P.O Box 1417
Baltimore MD, 21203

**APPLICATION AND MINING AND RECLAMATION PLAN
FOR SURFACE MINING PERMIT
RENEWAL**

I. GENERAL INFORMATION AND FEES

1. Name of applicant: **Laurel Sand & Gravel, Inc. T/A S.W. Barrick & Sons**

2. Current License Number: **20-SL-0005**

3. Business Mailing Address: **Laurel Sand & Gravel, Inc.**
P.O. Box 850
Laurel, MD 20725

4. Business Telephone Number: **410-792-7234 ext. 1120**

Business Fax Number: **301-470-4075**

5. Workers Compensation Insurance Number: **WC692872**

6. Name of Operation: (for example #1 pit or Smith Tract) **Barrick Quarry**

7. Location of Operation

a. County: **Frederick**

b. Travel Directions: **On Legore Bridge Road – 1/3 mile from the intersection with MD Route 194.**

8. Name and address of surface land owner (s)

Barrick, LLC
P.O. Box 850
Laurel, MD 20725

9. Name and address of mineral owner(s)

Same as #8

10. Email address: **Collin@aggmgt.com**

Consultant Email: **N/A**

11. Commercial name of mined products and geological description of the mineral deposit:
Grove Limestone

12. Starting date of mining operation: **1874** Estimated closure date: **2100**

13. Total acreage of the operation: **282.41**

II. CURRENT CONDITIONS

A. Describe the original permit and any approved modifications. (i.e. number of acres permitted, phasing etc.) **The original permit was 75 acres. It has since been expanded to include the remainder of the property for quarry, overburden placement and stockpile use. The adjacent farm was purchased and added to the permit. The farmland was undulating. The undulations were filled with overburden from the quarry and then top soiled. Completed areas have been returned to farm use.**

In 2010, the permit was modified in order to construct a screening berm along Legore Bridge Road. The final elevation of the overburden stockpile located on Steiner Smith Farm was also revised.

In 2014, 1.83 acres were added to the northeast corner of the permit in order to allow expansion of the pit. This modification also included the new pipeline that was installed in order to route process water from the Barrick Plant to Legore Quarry to allow additional settling time. This allowed for the removal of two of the wash water ponds to make room for more stockpiles.

B. Describe the existing conditions of the permit area by phase or section.

The quarry pit is being expanded horizontally and vertically. All quarry expansion will result in drainage being directed into the quarry pit. Sediment controls are functioning as intended. The Legore Quarry pit is being utilized to allow material washing fines to settle and fresh water to be discharged and/or recirculated. Overburden is stockpiled on the adjacent Steiner Smith farm.

C. Provide a description of the reclamation completed at the site, include number of acres reclaimed and the specific type of reclamation.

Final reclamation will occur concurrently with the cessation of mining. Disturbance is minimized whenever possible and inactive areas will be stabilized vegetatively or by other methods.

D. Where off site fill is authorized provide the following: N/A

1. Source(s) of fill:

2. Describe the material.

3. Number of acres being filled

4. Elevation of current fill compared to original elevation:

Note: Final grades of a site after reclamation may not exceed approximate pre-mining contours at the site except where post mining land use requires minimal variation and is approved by the Department.

E. Provide an estimate of the current reclamation cost for the site and how this figure was derived. **\$1,250 per acre.**

III. MUD AND DUST CONTROL:

A. How is mud and dust being controlled on haul and access roads?

<input checked="" type="checkbox"/> Water Truck	<input checked="" type="checkbox"/> Power broom & scraper
<input type="checkbox"/> Spray Bar	<input checked="" type="checkbox"/> Wheel wash
<input type="checkbox"/> Other:	

NOTE: Mud or dust tracked onto public roads shall only be cleared by broom or scraper. The material removed from the public roads shall be returned to the active pit. No material shall be washed from public roads unless it is directed to an approved sediment control device.

B. Is this effective? If not what revisions have you made? Yes, the wheel wash in particular has greatly reduced the amount of sediment tracked to Legore Bridge Road.

C. Have you received complaints about lack of mud and dust control from the public?

No

D. If off site fill is being imported for reclamation describe the methods used to control dust and mud from the fill area and access roads. Off site fill is not authorized unless specifically approved in the permit. N/A

<input type="checkbox"/> Water Truck	<input type="checkbox"/> Power Broom & scraper
<input type="checkbox"/> Spray bar	<input type="checkbox"/> Wheel wash
<input type="checkbox"/> Other:	

IV. Status of other permits required

Permit or Approval	Permit number	Date issued	Expiration Date
a. Soil Conservation District	N/A	05/31/1990	05/17/2024
b. Zoning	SP-86-40	10/08/86	N/A
c. Water Appropriation Permit	FR1901G001(04)	10/01/11	10/01/2023
d. Wetlands/ Waterway Construction Permit	90-WC-0522	06/18/90	N/A
e. NPDES Discharge Permit	15-MM-1429	12/28/10	04/30/2022
f. Other permits – Air Quality	021-0001	01/01/14	12/31/2023

V. What are the anticipated activities at the site for the next renewal period? (next 5 years)

The quarry shall continue to be expanded and deepened. Relocation of the plant may occur in the next 5 years, location is still TBD.

VI. Miscellaneous or minor changes: List any miscellaneous items or minor changes such as revised grass seed mixture, changed in final reclamation, type (Such as vegetated open space to agricultural use). N/A

(Section VII. Is only to be completed for sites that are approved for the use of explosives)

VII. BLASTING PROCEDURE:

1) Describe the basic elements of the production blasting procedure to be utilized at this site.

- a) Blast hole diameter: **5.5" to 6.5"**
- b) Bench Height: **40' to 55'**
- c) Stemming Height: **12' to 15' average**
- d) Burden: **12' for 5.5" holes; 14' to 18' for 6.5" holes**
- e) Spacing: **12' to 15' for 5.5" holes; 15' to 18' for 6.5" holes**
- f) Stemming Type: **Crushed Stone**

2) State the average number of holes and rows in a typical blast and the average amount of explosive used per delay. **35-45 holes; 3-4 rows per shot; 550-650 lbs per delay; Titan 1000G emulsion.**

3) What is the typical frequency of blasting for:

Production: **6/month**

Toe Shots: **N/A**

Strip Shots: **2/month**

How are oversize boulders handled? **Hydraulic breaker**

Note: A written log must be maintained by the driller and presented to the blaster in charge prior to loading any holes.

4) Describe how the blasts will be monitored for air blast and ground vibration.

Seismograph location is moved around the perimeter of the quarry to monitor levels in all directions. Setup is between the shot and the nearest non-owned property.

5) Will there be any blasting conducted within:

a) 1,000 feet of (check all that apply)

Church Occupied dwelling Hospital
 School Nursing facility N/A

b) 100 feet of (check all that apply)

Public Road Property Line N/A

c) 500 feet of (check all that apply)

Disposal well Petroleum or gas storage facility Public water well or
 Fluid transmission lines Water storage facility Sewer Line
 Underground/deep mine N/A

I hereby certify that all information contained in the Application and Mining and Reclamation Plan is true and correct to the best of my knowledge and that any willful misrepresentation of facts will be a violation of Title 15, Subtitle 808 of the Environment Article, Annotated Code of Maryland, as amended and may be cause for penalty provided in the aforesaid section.

By submission of this application I hereby accept the responsibility of conducting the operation in accordance with the approved Mining and Reclamation Plan and maps, the conditions of the permit, and any applicable law and regulations.

Edward Barnhouser, President

Typewritten Name and Title


Original Signature


Date