### MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land and Materials Administration • Mining Program
1800 Washington Boulevard, Suite 655 • Baltimore, Maryland 21203-2057
410-537-3557 • 800-633-6101 x3557 • www.mde\_maryland.gov

## APPLICATION FOR A PERMIT TO SURFACE MINE

This application can be used to obtain an original permit or to modify an existing permit.

Submitted pursuant to

Title 15, Subtitle 8, of the Environment Article

Annotated Code of Maryland

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Form Number MDE/LMA/PER.037
Date: 9-15-2017

Date: 9-15-2017 TTY Users 1-800-735-2258

#### GENERAL INFORMATION

#### Read the instructions thoroughly before completing

- 1. The Written Submittal (Attached herein)
  - a) Application for Permit to Surface Mine
  - b) Mining and Reclamation Plan
  - c) Filing Fees

All documents, maps, and materials submitted should have the name and address of the applicant and the date placed on the front of the material for identification.

All acreage to be mined or used in conjunction with mining must be included in the application or be covered under an existing Permit to Surface Mine.

All questions must be answered. If a question does not apply, indicate this by "N.A." (not applicable). If additional space is needed to answer a question, use a plain sheet of paper and attach to the application.

- 2) Maps and Drawings (Instructions attached herein)
- 3) **Right of Entry Agreement** (Separate form)
- 4) Performance Bond

Before the permit may be granted and prior to commencing mining, a performance bond payable to Maryland Department of the Environment must be filed with the Administration in the amount of \$1,250 per acre.

- The application should be completed by the person, or his authorized representative, making application to the Department for a mining permit. A surface mine permit may only be issued to a person holding a valid surface mine license. The person or authorized representative of the licensed operator who submits items 1 through 4 accepts responsibility for conducting the operation in accordance with the approved Mining and Reclamation Plan and maps, and of satisfying the conditions of the permit.
- 6) A public hearing may be required. In cases where a public hearing is required applicant will be billed for the cost of advertising the announcement in a local newspaper.
- 7) Filing fees as outlined on page 6 should be paid by check or money order made payable to the Maryland Department of the Environment. Send all payments to the following address: Department of the Environment, P. O. Box 1417, Baltimore, MD 21203-2057. Refunds of fees will not be made if the application is refused or denied.

Form Number MDE/LMA/PER.037

Date: 9-15-2017

## INSTRUCTIONS FOR COMPLETING PERMIT TO SURFACE MINE APPLICATION

Check the appropriate box if the application is an original or modification,

Items 1 & 3	Applicant's name and address shall be the same as that provided on the <b>Application for License to Surface Mine</b> and should be the same as the current permit.
Item 2	List the number on the operator's/applicant's current License to Surface Mine.
Item 4	Provide a business telephone number & business fax number.
Item 5	Provide workers compensation number
Item 6	Provide the commonly used name of the operation. For example: #1 pit or Smith Tract. This will help when an applicant is working more than one site.
Item 7	<ul> <li>a. County in which operation is located</li> <li>b. Describe the location by giving accurate travel directions from the nearest town. <i>For example:</i> 2.8 miles South of Norrisville on Norrisville Road, 1.2 miles East on Harkins Road.</li> </ul>
Item 8	List the name and address of each of the owners of the land for which a permit is requested. If the applicant is the sole landowner, designate by "applicant".
Item 9	List the name and address for those persons who own the mineral rights associated with the operation. If the applicant holds the mineral rights designate by "applicant".
Item 10	Provide an email address (If applicable)
Item 11	Provide the commercial name of all products being mined. For instance; glass sand, brick clay, ceramic clay, etc. Also, give a geologic description of the mineral being mined, if known.
Item 12	Provide the starting date, or the anticipated starting date of the mining operation. Because the probable closure date is affected by many variables, an estimated date may be given.
Item 13  The rest of the a	Indicate the total acreage of the operation for which application is being made. The total acreage is to include any area affected by mining, which includes pit, haul and access roads, sediment controls, overburden and topsoil stockpiles, etc. pplication is self-explanatory.

The submitted form must have an original signature, not a photocopy.

Date: 9-15-2017

TTY Users 1-800-735-2258

Form Number MDE/LMA/PER.037 Page 3 of 22

# INSTRUCTIONS FOR PREPARATION OF THE MAP ACCOMPANYING THE MINING AND RECLAMATION PLAN

Accompanying the mining and reclamation plan shall be an accurately surveyed topographic map on a scale no smaller than 1"=200' with existing and proposed contour interval appropriate for the area and at least two representative cross-sections. The surveyed topographic map and cross-sections shall be prepared, certified, and sealed by a Professional Engineer or Land Surveyor registered in the State of Maryland.

- A. The map shall show the following:
  - 1) Vicinity Map of the tract of land to be affected
  - 2) Property Lines
  - 3) Drainage area of flowing streams above and below the affected areas. (Can be in statement form)
  - 4) Delineate known Tidal and Non-Tidal wetlands, Critical Areas, and the One Hundred Year Floodplain of Non-Tidal Streams on-site and within 200 feet of the affected area
  - 5) Where appropriate, delineate a proposed <u>blasting</u> limit line. This line should represent the area within which all blasting is to occur beyond the surface mining permit area.
  - 6) Show the location, names, and addresses of:
    - a) All occupied dwellings, schools, churches, hospitals, and nursing facilities within **1,000 feet** of the blasting limit line
    - b) All disposal wells, petroleum or gas storage facilities, public water wells or water storage facilities, fluid transmission lines, sewer lines, and underground /deep mines within **500 feet** of the blasting limit line.
    - c) All public roads, streams, railroads, utility lines that are on or immediately adjacent (within **200 feet**) to the affected areas.
  - 7) Location map showing all buildings or structures within 1,000 feet of the outer perimeter of the affected areas. Include the names and addresses of owners and the use of each building. This map may be at a scale smaller than 1" = 200' but not less than 1" = 400'.
  - 8) Name of landowner of affected area
  - 9) **Signed** Landowner certification and/or Owner/Operator certification
  - 10) Names of adjoining landowners
  - 11) Municipality or district and county
  - 12) Location of test borings or test pits, outcrop line(s) for each geological formation.

Form Number MDE/LMA/PER.037 Date: 9-15-2017 TTY Users 1-800-735-2258

#### 13) Outline and designation of:

- a) Affected area;
- b) Topsoil, subsoil and storage areas;
- c) Stockpiles, processing plants
- d) Tailings and settling ponds
- e) Disposal areas
- f) Reclamation areas
- g) Areas to be mined at a future date
- h) Haul roads
- i) Existing disturbance on-site where appropriate
- j) Blasting limit line
- 14) North arrow
- 15) Sediment Control Devices
- 16) Sediment Control Details (standard drawing),
- 17) Soil Conservation District approval. (Not necessary for initial review. Must be on final plans submitted for approval).
- B. The cross-sections shall show the following
  - 1) Location of test borings and sites of test samples,
  - 2) Nature and depth of various strata,
  - 3) Thickness of mineral seam,
  - 4) Analysis of mineral deposit or ore,
  - 5) Thickness of topsoil and overburden, and any analysis of material,
  - 6) Existing grade, proposed mining depth, and reclamation grades and slopes

- C. All maps submitted shall utilize the following uniform color code and map symbols.
  - 1) The perimeter of the proposed permit area shall be designated by a solid black/dark line
  - 2) The area proposed in a permit modification shall have its perimeter designated by a **broken black** line or other distinguishing line. The perimeter of the original permit area shall be designated by a solid black/dark line
  - 3) Arrows shall be used to show the beginning point, direction, and end point of the mining operation.
  - 4) Use the standard symbols and standard drawings for sediment control devices as shown in the "Maryland Standards and Specifications for Soil Erosion and Sediment Control" manual.
- D. If proposed mining area is in karst terrain and located in Baltimore, Carroll, Frederick, or Washington counties, a proposed zone of influence and supporting documentation must be shown.

#### **Fee Schedule**

Application & Recording Fees – Source Code 5671 - PCA - 13743 Special Reclamation Fund Fees- Source Code 5671 – PCA - 13750

Check category (ies) on page for which application is made, fill in the blanks, and remit necessary fees.

ORIGINAL APPLICATION	Amount Remitted
1) New Acreage Fee \$ 12 xacres (\$1,000 Maximum)	
2) Special Reclamation Fund Fee: \$30 x acres	+
3) Right of Entry Agreement Recording Fee: \$60.50	+
	TOTAL= \$
MODIFICATION APPLICATION- NO ADDITIONAL ACREAGE	
1) Modification Fee: \$ 100.00	TOTAL = \$
MODIFICATION APPLICATION- ADDING NEW ACREAGE  1) Modification Fee: \$ 100.00	
2) New Acreage: \$ 12.00 xnew acres (\$1,000 Maximum	n) +
3) Reclamation Fee: \$ 30.00 x new acres	+
4) New Right of Entry Agreement Recording Fee: \$60.50	+
	TOTAL \$
TOTAL REM	MITTED= \$

Original Permit Permit Modification	Permit No.	SP	
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#### APPLICATION AND MINING AND RECLAMATION PLAN FOR SURFACE MINING PERMIT

## **I. GENERAL INFORMATION AND FEES**

1. Name of applicant:
2. Current License Number:SL
3. Business Mailing Address:
4. Business Telephone Number:
Business Fax Number:
5. Workers Compensation Insurance Number:
6. Name of Operation: (for example #1 pit or Smith Tract)
7. Location of Operation a. County:
b. Travel Directions:
8. Name and address of surface land owner (s)
9. Name and address of mineral owner(s)
10. Email address:
Consultant Email:
11. Commercial name of mined products and geological description of the mineral deposit:

12. Starting date of mining operation	on: Estimated	d closure date:	
13. a) Acreage applied for in this ap	oplication:		
b) Total acreage currently perm	itted:		
Complete item 14 only if applying	g for a permit mod	ification	
14. Reason for requesting modifica	ations		
Change in planned land u	ıse	Increased Land A	Area
Change in schedule of re	clamation	Decreased land a	rea
Change in reclamation pr	ractices	Other	
Describe Reasons:			
II. SITE INFORMATION			
15) Present land use (s) of the affective Agriculture Pastu	<b>=</b> `	all that apply):	Mining
Other (describe):			
16) Existing land use (s) of all adjace (Check all that apply)  Agriculture Pastu	_	uding any signific	cant natural or man-made features  Undeveloped Land
Forested Acres:	Wetland Acres		
Other (describe):			
17) Proposed use(s) of the affected (Check all that apply)	l acreage following	completion of min	ning
☐Vegetated Open Space	Agriculture	Forestry	
Permanent Impoundmen	t with Vegetated Sic	le Slopes	

	Other: Describe thoroughly:		
18)	a) What is the existing zoning for the site?		
	b) Is mineral extraction an accepted land use for this zoning class	ification?	
	□Yes □No		
	c) Have all zoning approvals been obtained?   Yes	□No	
	If No please explain:		
19) Do	the future intended uses given in question 17 comply with the pre	sent zoning?	
	□Yes □No		
If no P	lease explain:		
20) I	s the proposed mining site located in or within 200 feet of: (a) The Critical Area (b) Tidal Wetlands	Yes Yes	☐ No ☐ No
W	<ul> <li>(c) Nontidal wetlands</li> <li>(d) The 100 year floodplain of nontidal streams</li> <li>(ill the proposed mining operation:</li> <li>(e) Require the pumping of ground water or surface water?</li> <li>If yes to any of the above other permits may be required</li> </ul>	☐ Yes ☐ Yes ☐ Yes	☐ No ☐ No ☐ No

21) List all permits and approvals required by State and local regulatory agencies with regard to air and water pollution, sediment control and zoning. Also **SUBMIT COPY** of sediment and erosion control plans and permits approved by the local Soil Conservation District and **written confirmation** of appropriate zoning.

Form Number MDE/LMA/PER.037 Date: 9-15-2017 TTY Users 1-800-735-2258

Permit or Approval	Permit number	Date issued	Expiration Date
a. Soil Conservation District			
b. Zoning			
c. Water Appropriation Permit			
d. Wetlands/ Waterway Construction Permit			
e. NPDES Discharge Permit			
f. Other permits			
22) Is there/ will there be any processing equipme	ent or plants cons	tructed within the p	permit area?
□Yes □No			
If Yes, explain the type and approximate location:			
23) Will a wash plant and/or wash water settling properties and the settling properties and the settling properties are settling properties.	pond(s) be includ	ed in the permit are	ea?
<b>Note:</b> If Yes, pond approval for all wash water po	onds must be obta	ined before this pe	ermit is issued
If Yes, provide the following information for each	impoundment:		
a) What is the drainage area contributing to	each impoundme	ent?	
b) Will the impoundment(s) be dugout or en	mbankment type,	or a combination of	of the two?
c) What are the elevations of the principle spillway: Emergency Spillway:	spillway(s) and e	mergency spillway	(s)
d) What will the surface area, minimum and	d maximum depth	s of each impound	ment be?
Surface Area: Minimum Depth: Maximum Depth:			

e) State the proposed water surface elevation, and how this elevation was determined.

	f) Indicate the source of make-up water to the plant:
	g) Indicate the clean out elevation of the pond(s).
	h) Where and how will he fines be disposed of?
	i) Will the pond(s) remain at the completion of mining? If not how will they be reclaimed?
III. Sit	e Preparation
constru	24) Describe procedures for providing access to the mining area. Include length, width, action materials, maintenance, etc. of entrance roads and haul roads.
	a) Indicate method(s) by which mud and dust will be controlled on haul and access roads:
	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 the public roads unless it is directed to an approved sediment control device
	b) Indicate the methods for removal and disposal of trees and brush (check all that apply)
	Taken to a MDE approved disposal site
	Wind-rowed on-site within the permit boundary
	Burned, after obtaining proper burning permits.
	Other, describe:
	c) State the number of acres cleared, grubbed and stripped of topsoil and overburden ahead of mining:

	d) State the thickness (inche	s or feet) of topsoil/subsoil on	site:
	e) State the amount of topso construction of visual/acoust	• ,	ved for reclamation and to be used in
		e the alternative measures that	topsoil/subsoil on site. If there is little will be used in lieu of topsoil during
	g) State the thickness (inche	es or feet) of overburden on-sit	e:
	State the amount (in cubi screening berms:	c yards) to be conserved for re	clamation and used in visual/acoustical
	Briefly describe the materia	1:	
	Describe method of remova	l and storage of overburden or	n-site:
25) D	escribe how the mining opera	tion will be screened from pub	olic view:
	a) Will visual screening ber	ms be constructed?  Yes	□NO
	If yes, provide the following	information	
	Berm Dimensions:		
	Top Width:	Side Slope:	Height:

Form Number MDE/LMA/PER.037 Date: 9-15-2017 TTY Users 1-800-735-2258

Approximate Location:		
Sequence of Construction:		
b) Buffer strip(s) - state widtle be planted.	h, whether there is existing ve	getation or if additional vegetation will
c) Other methods of screening	g:	
26) Describe the methods proposed from runoff, sediment, and other cor		perties, including waters of the State, ous to fish, plant, or animal life.
27) Describe provisions for public s site will be left at the end of each wo		ty as mining progresses and how the
a) Provisions to prevent slump	ps, cave-offs, or landslides:	
b) Provisions to provide safet fencing, warning signs, safety benche		of all excavations or highwalls (i.e.
c) Provisions to provide safety if site	will have impounded water of	luring mining.
IV. Mining Method		
28) Indicate the type(s) of mi	ning equipment to be used:	
Dredge	Bulldozer	Power Shovel
Conveyor Belt	Hydraulic excavator	<b>Explosives</b>
Self-loading pan	"'Off road" trucks	Conventional Trucks

Front-end loader	Dragline	☐ Pipeline
Other (specify):		
7	g operation. At a minimum aclude clearing and sedimen	the following must be addressed.  nt control installation.
• Mining Sequence- If	phased provide sequence for	or each phase including reclamation.
• Estimated mining deptheir dimensions for o		ethod- Include number of benches and
• What are the potentia	l impacts to surrounding wa	ater supplies?
<b>-</b>	posed to be open, include neler active reclamation.	nining, stripping, overburden storage,
How and when will re	eclamation be completed?	
Estimated cost per accomaterial sites only).	re for reclamation in the ac	tive mining area (for unconsolidated

#### V. RECLAMATION PLAN

30) a) Describe how the surface gradient will be restored to a surface suitable for the proposed land use after reclamation. Include specifications on the gradient as well as maximum and minimum final slopes.

b) Will final slopes (including highwalls) be constructed during mining or backfilled to proposed grades?
c) If backfilled, describe material:
d) State source(s) of backfill material:
e) If back fill will be brought in from off-site, briefly describe the material, only clean fill may be authorized. (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.)
31) How will highwalls remaining at the end of the mining operations be eliminated?
<ul><li>32) If a highwall can not be eliminated please complete the following:</li><li>a) What height and width will final highwalls be?</li></ul>
b) State practices to be used to stabilize remaining highwalls:
c) What provisions will be made to restrict access to highwalls (i.e., fencing, safety bench, etc.)
d) What is the proposed source and elevation and final water elevation?
e) What provisions will be made if mining is not carried out to completion?
33) Will there be any metal or lumber, debris, old equipment, etc. left after completion of mining?
□Yes □NO
a) If yes, specify the intended use or method disposal.
b) How will boulders and large rocks be disposed of after mining?

c) Will an	y permanent b	uildings be left	t following	completion	of the o	peration?	If yes,	list and
give intend	ded use for suc	h buildings.						

34)	Manner and type of revegetation	n or other surface	treatment of the	affected areas.	Must specify	both
cool	and hot weather seed mixes.	Refer to the "Ma	aryland Standar	ds & Specific	ations for Soi	l and
Ero	sion Control"			_		

a) Hot	Weather Mix		
	1. Grasses (specify spec	eies)	Pounds/Acre
	2. Legumes (specify spe	- cies) -	Pounds/Acre
	3. Nurse Crop (fast grov	- ving annual grass or grain) -	Pounds/Acre
b) Cool	Weather Mix	-	
	1. Grasses (specify spec	eies)	Pounds/Acre
	2. Legumes (specify spe	cies)	Pounds/Acre
	3. Nurse Crop (fast grov	ving annual grass or grain)	Pounds/Acre
c) Tree	s/vegetative fencing. Pro	ovide location and planting s Spacing	schedule. Acreage of Area Planted
d) Am	nount of lime, fertilizer, an	nd mulch to be applied.	
e) Wil	l sludge be applied?	□Yes	□No
If yes,	have all appropriate appr	ovals been obtained?	

35) Describe the method of reclaiming settling ponds, wash ponds, sediment basins, and sediment traps. <b>NOTE:</b> Sediment Control Structures (basins, traps, etc.) can be removed [by the operator] upon approval from the Maryland Department of the Environment.
36) Will any stream channels or stream banks be disturbed by the mining operation?  Stream Channels or stream banks be disturbed by the mining operation?  No
If yes please provide Wetlands & Waterways Construction permit number:
37) Will permanent impoundments (ponds, lakes, sediment basins, etc.) be included in the final land form?   No
NOTE: IF yes, pond approval must be obtained prior to bond release
If Yes, provide the following information for each impoundment.
a) What is the drainage contributing to each impoundment?
b) Will the impoundment(s) be dugout type or dam, or a combination of the two?
c) What are the elevations of the principle spillway(s) and emergency spillway(s)?
d) What will the surface area, minimum and maximum depths of each impoundment be?
e) State the proposed water surface elevation, and how this elevation was determined.
f) Indicate the major contributing source of water for each impoundment described above:  Groundwater  Surface Water
g) How will contamination of water in the permanent impoundment be prevented?
5) 110 w will containination of water in the permanent impoundment be prevented:
h) How long will it take the quarry or impoundment to fill with water to the proposed elevation?

38)	For operation	ons in karst terrain	located in Balt	timore, Carroll,	Frederick or	Washington (	Counties,
prov	vide an analy	sis of the expected	d impact to wat	er supplies and	l properties in	the area.	

39) Complete Table 1. - For each item listed, fill in the number of acres and the expected starting date of construction for that item and date when that item is expected to be removed or reclaimed.

TABLE I SCHEDULE FOR COMPLETION OF MINING AND RECLAMATION					
Identification of How Lands Are To Be	Number of Acres Within the	Acres   Expected Mining Dates   Month/ Year		-	
Affected				Date to Begin	Date to Complete
Active Pit					
Haul Roads					
Topsoil Stockpile Areas					

Form Number MDE/LMA/PER.037 Date: 9-15-2017

TTY Users 1-800-735-2258

Sediment Control Structures						
Office – Shop						
Plant Site						
Equipment Storage						
Waterways Overburden Stockpile Areas						
Refuse – Debris Storage						
Other (Specify)						
Total Acres (Must equal size of permit)						
VI. BLASTING PROCEDURE:						
(Section IV is only to be completed for	sites that requir	e the use of ex	plosives)			
40) Describe the basic elements of the production blasting procedure to be utilized at this site.						
a) Blast hole diameter:						
b) Bench Height:						
c) Stemming Height:						
d) Burden:						

e) Spacing:

f) Stemming Type:		
41) State the average number of holes per delay.	s and rows in a typical blast and	the average amount of explosive used
42) How often will blasting occur fo	r:	
Production:		
Toe Shots:		
Strip Shots:		
How are oversize boulders handled?		
Note: A written log must be main to loading any holes.	tained by the driller and pre	sented to the blaster in charge prior
43) Describe how the blasts will be a	monitored for air blast and gro	und vibration.
44) Will there be any blasting condu	cted within:	
a) 1,000 feet of (check all th	at 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 ap	oply)		
☐Disposal well	Petroleum or g	as storage facility	
Public water well or Water storage facility	Fluid transmis	sion lines	
Sewer Line	Underground/d	leep mine	
□N/A			
I hereby certify that all information cor and correct to the best of my knowledg of Title 15, Subtitle 808 of the Environ be cause for penalty provided in the afo	e and that any willful m ment Article, Annotated	isrepresentation of facts	will be a violation
By submission of this application I herel with the approved Mining and Reclamat law and regulations.			
Typewritten Name and Title	Original S	ignature	Date

Form Number MDE/LMA/PER.037 Date: 9-15-2017 TTY Users 1-800-735-2258