MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Mining Program
P.O. Box 1417 • Baltimore, Maryland 21203-2057
410-537-3557 • 800-633-6101 x3557 • www.mde.state.md.us

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

*This application is available as a Microsoft Word document online at http://www.mde.state.md.us/Permits/WasteManagementPermits/wasteWater_app/index.asp#mining

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.

- 5) 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 7 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.

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 Application for License to Surface Mine 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	 a. County in which operation is located b. Describe the location by giving accurate travel directions from the nearest town. For example 2.8 miles South of Norrisville on Norrisville Road, 1.2 miles East on Harkins Road. 			
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	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.			
The rest of the application is self-explanatory.				

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

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.

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 \$ 18.50 xacres (\$3,000 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: \$ 150.00	TOTAL = \$
MODIFICATION APPLICATION- ADDING NEW ACREAGE 1) Modification Fee: \$ 150.00	
2) New Acreage: \$ 18.50 xnew acres (\$3,000 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
APPLICATION AND MINING	G AND RECLAMAT	ION 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: Estimated closure date:
13. a) Acreage applied for in this application:b) Total acreage currently permitted:
Complete item 14 only if applying for a permit modification
14. Reason for requesting modifications
Change in planned land use
Change in schedule of reclamation Decreased land area
Change in reclamation practices Other
Describe Reasons:
II. SITE INFORMATION
15) Present land use (s) of the affected acreage (check all that apply): Agriculture Pasture Forest Crops Mining
Other (describe):
16) Existing land use (s) of all adjacent properties including any significant natural or man-made features (Check all that apply) Agriculture Pasture Crops Mining Undeveloped Land
Forested Acres: Wetland Acres
Other (describe):
17) Proposed use(s) of the affected acreage following completion of mining (Check all that apply)
☐Vegetated Open Space ☐Agriculture ☐Forestry
Permanent Impoundment with Vegetated Side Slopes

	Other: Describe thoroughly	<i>y</i> :		
18)	a) What is the existing zoning for the site?			
	b) Is mineral extraction an ac	cepted land use for this zoning classi	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 pres	sent zoning?	
	Yes	□No		
If no P	lease explain:			
ĺ	s the proposed mining site loca (a) The Critical Area (b) Tidal Wetlands (c) Nontidal wetlands (d) The 100 year floodplain of the proposed mining operat (e) Require the pumping of g	f nontidal streams tion:	☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes	 No No No No No No
	If yes to any of the above other	r permits may be required		

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.

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	ructed 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 page Yes No	oond(s) be includ	ed in the permit are	ea?
Note: If Yes, pond approval for all wash water po	onds must be obta	ined before this pe	rmit 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 er	nbankment type,	or a combination o	of the two?
c) What are the elevations of the principle s Principle Spillway: Emergency Spillway:	spillway(s) and en	mergency spillway((s)
d) What will the surface area, minimum and maximum depths of each impoundment 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. Site Preparation
24) Describe procedures for providing access to the mining area. Include length, width, construction 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: Water Truck Spray Bar Power Broom & Scraper
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 (inches or feet) of topsoil/subsoil on site:	
e) State the amount of topsoil (in cubic yards) to be conserved for reclamation and to be a construction of visual/acoustical berms:	ised in
f) Describe method of removal and storage location of the topsoil/subsoil on site. If there or no topsoil onsite, describe the alternative measures that will be used in lieu of topsoil describe to provide a suitable growing medium.	
g) State the thickness (inches or feet) of overburden on-site:	
State the amount (in cubic yards) to be conserved for reclamation and used in visual/ac screening berms:	coustical
Briefly describe the material:	
Describe method of removal and storage of overburden on-site:	
25) Describe how the mining operation will be screened from public view:	
a) Will visual screening berms be constructed? Yes NO	
If yes, provide the following information	
Berm Dimensions: Top Width: Side Slope: Height:	
Approximate Location:	
Sequence of Construction:	

b) Buffer strip(s) - state width, whether there is existing vegetation or if additional vegetation will be planted.			
c) Other methods of scre	eening:		
,	-	properties, including waters of the State, ardous to fish, plant, or animal life.	
27) Describe provisions for pul site will be left at the end of each		perty as mining progresses and how the	
a) Provisions to prevent s	slumps, cave-offs, or landslides	:	
b) Provisions to provide safety around the upper perimeter of all excavations or highwalls (i.e. fencing, warning signs, safety benches, etc.)			
c) Provisions to provide safety i	f site will have impounded water	er during mining.	
IV. Mining Method			
28) Indicate the type(s)	of mining equipment to be used	:	
Dredge	Bulldozer	Power Shovel	
Conveyor Belt	Hydraulic excavator	Explosives	
Self-loading pan	""Off road" trucks	Conventional Trucks	
Front-end loader	Dragline	Pipeline	
Other (specify):			
 29) Fully describe the mining operation. At a minimum the following must be addressed. Site preparation- to include clearing and sediment control installation. 			

- Mining Sequence- If phased provide sequence for each phase including reclamation.
- Estimated mining depth and proposed mining method- Include number of benches and their dimensions for quarries.
- What are the potential impacts to surrounding water supplies?
- Number of Acres proposed to be open, include mining, stripping, overburden storage, support and acres under active reclamation.
- How and when will reclamation be completed?
- Estimated cost per acre for reclamation in the active mining area (for unconsolidated material sites only).

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?
32) If a highwall can not be eliminated please complete the following:a) What height and width will final highwalls be?
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 any permanent buildings be left following completion of the operation? If yes, list and give intended use for such buildings.
Manner and type of revegetation or other surface treatment of the affected areas. Must specify both cool and hot weather seed mixes. Refer to the "Maryland Standards & Specifications for Soil and Erosion Control"

a) Hot Weather Mix

	1. Grasses (specify spec	ies)	Pounds/Acre	
	2. Legumes (specify spec	cies)	Pounds/Acre	
	3. Nurse Crop (fast grow	ring annual grass or grain) -	Pounds/Acre	
b) Cool	Weather Mix			
	1. Grasses (specify specify	ies)	Pounds/Acre	
	2. Legumes (specify spec	cies)	Pounds/Acre	
	3. Nurse Crop (fast grow	ving annual grass or grain)	Pounds/Acre	
c) Tree	s/vegetative fencing. Pro Species	vide location and planting Spacing		`Area Planted
d) Am	ount of lime, fertilizer, ar	nd mulch to be applied.		
e) Wil	l sludge be applied?	Yes	□No	
If yes,	have all appropriate appro	ovals been obtained?		
NOTE		ctures (basins, traps, etc.) c		pasins, and sediment traps. the operator] upon approval
36) W	ill any stream channels or Yes	stream banks be disturbed	l by the mining oper	ration?
If yes p	olease provide Wetlands &	& Waterways Construction	permit number:	

37) Will form?	permanent impoundments (ponds,	lakes, sediment basins, etc.) be included in the final land
NOTE:	IF yes, pond approval must be obta	ined prior to bond release
If Yes, pr	rovide the following information for	r each impoundment.
a)	What is the drainage contributing	to each impoundment?
b)	Will the impoundment(s) be dugo	out type or dam, or a combination of the two?
c)	What are the elevations of the pri	nciple 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 e	elevation, and how this elevation was determined.
f)	Indicate the major contributing so Groundwater	urce of water for each impoundment described above: Surface Water
g)	How will contamination of water	in the permanent impoundment be prevented?
h)	How long will it take the quarry of	or impoundment to fill with water to the proposed elevation?
	-	Baltimore, Carroll, Frederick or Washington Counties, water supplies and 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 Permitted Area	Expected Mining Dates Month/ Year		Expected Reclamation Date Month/ Year	
Affected		Construction Date	Removal Date	Date to Begin	Date to Complete
Active Pit					
Haul Roads					
Topsoil Stockpile Areas					
Sediment Control Structures					
Office – Shop					
Plant Site					
Equipment Storage					
Waterways					

Overburden Stockpile					
Areas					
Refuse – Debris Storage					
Ketuse – Deoris Storage					
Other (Specify)					
Total Asses					
Total Acres (Must equal size of					
permit)					
VI. BLASTING PROCED (Section IV is only to be co		sites that requir	e the use of ex	plosives)	
, and J	P	1			
40) Describe the basic eleme	ents of the prod	uction blasting p	rocedure to be u	ntilized at this si	te.
a) Blast hole diameter:					
b) Bench Height:					
c) Stemming Height:					
d) Burden:					
e) Spacing:					
f) Stemming Type:					
41) State the average number per delay.	r of holes and r	rows in a typical l	blast and the ave	erage amount of	f explosive used
42) How often will blasting	occur for:				
Production:					

Toe Shots:					
Strip Shots:					
How are oversize boulders handle	d?				
Note: A written log must be ma to loading any holes.	intained by the driller an	d presented to the blaster in charge prior			
43) Describe how the blasts will b	e monitored for air blast an	nd ground vibration.			
44) Will there be any blasting con	ducted 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 the	nat apply)				
Disposal well	Petroleum or	gas storage facility			
☐Public water we Water storage fa ☐Sewer Line	<u>—</u>				
□N/A					

I hereby certify that all information contained in the and correct to the best of my knowledge and that an of Title 15, Subtitle 808 of the Environment Article be cause for penalty provided in the aforesaid section	ny willful misrepresentation of facts will be a e, Annotated Code of Maryland, as amended a	violation
By submission of this application I hereby accept the with the approved Mining and Reclamation Plan and law and regulations.	1 0 1	
Typewritten Name and Title	Original Signature	Date