

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land and Materials Administration • Bureau of Mines
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APPLICATION FOR MINING OPERATIONS MODULE II ENVIRONMENTAL RESOURCES

Permit Application No.: _____

Date: _____

1. **CULTURAL AND HISTORIC RESOURCES**

1.1 Within or adjacent to the proposed permit area, are there any of the following resources?

a) Cultural or historical resources listed on the National Register of Historical Places?

☐ YES ☐ NO

b) Known archeological features?

☐ YES ☐ NO

If YES for Item 1.1(a) or (b), identify sites and describe the measures to be taken to minimize or prevent potential adverse impacts. Label Attachment II-1.1.

1.2 Have you contacted State and local archeological, historical, and cultural preservation agencies for all available information?

☐ YES ☐ NO

2. **LAND USE INFORMATION**

2.1 Pre-mining land productivity and capability information:

a) Describe the existing pre-mining capability of the land to be disturbed by the proposed mining operation using soil and foundation characteristics, topography, vegetative cover, and the hydrology of the proposed permit area; using data currently available from State and Federal agencies. Label Attachment II-2.1(a).

b) Describe the existing pre-mining productivity of the land to be disturbed by the proposed mining operation using average yield of food, fiber, forage, or wood products from lands under high management levels. Label Attachment II-2.1(b).

2.2 Has the proposed permit area been previously mined? ☐ YES ☐ NO

If YES, provide information concerning the uses of the land preceding mining, if available. Label Attachment II-2.2.

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- 2.3 On the table below, indicate the existing land use of the proposed permit area. If the land use has changed within the last five (5) years, also identify the historic land use (Refer to Bureau's Regulation 26.20.02.09B(8) for definitions of land use categories).

<u>LAND USE CATEGORIES</u>	<u>Existing (Acres)</u>	<u>Historic (Acres)</u>
Cropland	_____	_____
Pastureland	_____	_____
Grazingland	_____	_____
Forestry	_____	_____
Residential	_____	_____
Industrial/Commercial	_____	_____
Recreation	_____	_____
Fish and Wildlife Habitat	_____	_____
Developed Water Resources	_____	_____
Undeveloped Land	_____	_____
Other (Specify): _____	_____	_____

3. **PRIME FARMLAND INVESTIGATION**

- 3.1 For the land to be disturbed by the proposed permit area:

- a) Has the land been historically used for cropland? ☐ YES ☐ NO
- b) Is the slope of the land less than 10% (percent)? ☐ YES ☐ NO
- c) Is the surface free from rocks and large stone? ☐ YES ☐ NO
- d) Has the land been free from frequent flooding (i.e. less often than once in two years not causing reduced crop yields)? ☐ YES ☐ NO
- e) Has, on the basis of a soil survey, any of the soil map units been designated as prime farmlands by the U.S. Soil Conservation Service? ☐ YES ☐ NO

- 3.2 If any of the above questions have been answer NO, are you requesting a negative determination? ☐ YES ☐ NO

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3.3 If all of the questions in Item 3.1 have been answered YES, have you contacted the U.S. Soil Conservation Service to review the area? ☐ YES ☐ NO

3.4 Did the U.S. Soil Conservation Service determine any of the area to be prime farmland? ☐ YES ☐ NO

If YES, follow performance standards for prime farmland.

4. **POST-MINING LAND USE INFORMATION**

4.1 Indicate the proposed Post Mining Land Use:

<u>LAND USE CATEGORIES</u>	<u>Proposed (Acres)</u>
Cropland	_____
Pastureland	_____
Grazingland	_____
Forestry	_____
Residential	_____
Industrial/Commercial	_____
Recreation	_____
Fish and Wildlife	_____
Developed Water Resources	_____
Undeveloped Land	_____
Other (Specify): _____	_____

4.2 Describe each landowner's plan for use of the land within the proposed permit area following reclamation in accordance with an approved land use category. Label Attachment II-4.2.

4.3 Discuss the utility and capacity of the reclaimed land to support several alternate uses. Label Attachment II-4.3.

4.4 Describe the relationship of the proposed post-mining land use to the existing land use policies and plans. Label Attachment II-4.4.

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4.5 Describe how the proposed post-mining land use is to be achieved and the necessary support activities which may be needed to achieve the proposed post-mining land use. Label Attachment II 4.5.

4.6 Is grazingland proposed as the post-mining use? ☐ YES ☐ NO.

If YES, describe the management plan to be implemented. Label Attachment II-4.6.

4.7 Is the post-mining land use different from the pre-mining land use? ☐ YES ☐ NO.

If YES, attach all material needed for approval of the post-mining use and label Attachment II-4.7.

4.8 Describe the considerations given to insuring the proposed mining operation is consistent with the surface owner's plans and applicable State and local land use programs. Label Attachment II-4.8.

4.9 Have you attached a copy of the comments concerning the post-mining land use by the legal or equitable owner(s) of record of the surface of the proposed permit area?
☐ YES ☐ NO

If YES, Label Attachment II-4.9.

If NO, explain and Label Attachment II-4.9.

4.10 Is the proposed permit area subject to local land use (zoning) law? ☐ YES ☐ NO

If YES, attach a copy of the zoning approval and label Attachment II-4.10.

5. **FISH AND WILDLIFE INFORMATION.**

5.1 Include fish and wildlife information for the proposed permit area and adjacent area. Identify as Attachment II-5.1.

5.2 Are any listed or proposed endangered or threatened species of plants or animals; eagles, migratory birds, or other species identified as requiring special protection; or their critical habitats likely to be present within the proposed permit and/or adjacent area?

☐ YES ☐ NO.

If YES, identify the species or habitat and describe all protection and/or enhancement measures to be utilized.

5.3 Will the proposed permit area impact any important streams, wetlands, riparian areas, cliffs supporting raptors, or other habitats of unusually high value for fish and wildlife?

☐ YES ☐ NO.

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If YES, delineate the boundaries on the Mining Plan Map.

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- 5.4 Include a description of how, to the extent possible using the best technology currently available, the operator will minimize disturbances and adverse impacts on fish and wildlife and related environmental values during the surface mining and reclamation operations and how enhancement of these resources will be achieved where practicable. Label Attachment II-5.4.

6. PUBLIC PARKS AND LANDS INFORMATION

- 6.1 Will the proposed permit area have an adverse impact on any public parks, forests, or wildlife management areas? ☐ YES ☐ NO.

If YES, provide the following information:

- a) Name and locate parks, forests, or wildlife management areas on the Mining Plan Map;
- b) Describe the measures to be taken to minimize or prevent the adverse impacts from the proposed permit and label Attachment II-6.1(b); and
- c) Obtain the approval of the agency with jurisdiction over the parks or places and label Attachment II-6.1(c).

7. AIR AND WATER INFORMATION

- 7.1 Provide a description of steps to be taken to comply with the requirements of the Clean Water Act and the Clean Air Act. Label Attachment II-7.1.