



Bluestone Exploration Authorization Application

PRINT OR TYPE IN BLACK INK

For Instructions on completing this form, visit the Division's website at www.dec.state.ny.us/website/dmn or contact your local Regional office.

1. Exploration Firm, Company, Agent or Individual

2. Permanent Address _____

City _____ State _____ Zip Code _____

3. Contact Person _____ 4. Telephone # _____

5. Taxpayer I.D. or Social Security Number _____

6. Application Type New Renewal (one year)

7. Estimated Period of Exploration: From ____ / ____ / ____ To ____ / ____ / ____

8. Exploration Location

Road _____ Nearest Road Intersection _____

Town _____ County _____

9. Map Location

USGS or NYSDOT 7 1/2 minute topographic quadrangle name _____

Attach topographic quadrangle map and county road map (minimum map size of 8 1/2" x 11") showing the exploration site location.

10. Local Zoning

Is bluestone mining exploration allowed at this location? Yes No

11. Does the local government require any type of permit for bluestone mining exploration at this location? Yes No
(If yes, please attach)

12. Types of Equipment to be Used

Drill Rig (Boreholes / Coreholes) Excavator Bulldozer Saws Other _____

13. Methods of Exploration

Drilling and Blasting Test Pits or Trenches Sawing

14. Name and Address of Surface Landowner

15. Name and Address of Mineral Owner (if different from surface owner)

16. Describe the proposed bluestone exploration activity by answering the following:
- a) Will the proposed exploration activity occur at an existing quarry? Yes No
 - b) Will a new road be built? Yes No (If Yes, construct water bars to divert surface water runoff. Mulch and seed all disturbed soil areas.)
 - c) Will existing soils be disturbed? Yes No (If yes, stockpile all soils. Seed stockpiled soils and cover with mulch to stabilize.)
 - d) Provide an estimate of soil thickness for the proposed exploration site.
Average soil thickness _____ inches Range of soil thickness _____ inches
 - e) What will be the approximate depth of overburden removed? _____ feet (Stockpile overburden and store separately.)
 - f) What is the distance to the nearest stream? _____ feet
 - g) What is the current condition of the existing vegetation?
Woodland Scrub/Brush Meadow/Pasture Sparse Vegetation
(Exploration site must be returned to pre-exploration land use condition.)

17. In the box below, sketch and label the location of the following details:
- a) Outline of Exploration Area. (Delineate the proposed exploration area if located within the perimeter of a larger, pre-existing mine or exploration area.)
 - b) Provide the approximate scale of the sketch (Example Scale: 1"=50 feet)
 - c) Topsoil and Overburden Storage Areas
 - d) Sediment Trap, Settling Pond, Erosion Control Devices
 - e) Access Road

Note: 1 acre is approx. 209 ft x 209 ft

Map Scale 1" = _____ feet

18. Performance and Design Standards

A. Exploration Phase

The following controls must be utilized as necessary to control water runoff and erosion at the exploration site and to prevent any off-site sedimentation.

- 1) Settling basins with a minimum sediment storage volume of 1800 cubic feet per acre of contributory drainage area.
- 2) All earth dikes shall be constructed in accordance with Figure 5A.1 entitled "Earth Dike Details", Page 5A.2.
- 3) All temporary swales shall be constructed in accordance with Figure 5A.2 entitled "Temporary Dike/Swale Details", Page 5A.4.
- 4) All perimeter swales shall be constructed in accordance with Figure 5A.3 entitled "Perimeter Dike/Swale Details", Page 5A.6.
- 5) All straw bale dikes shall be constructed in accordance with Figure 5A.8 entitled "Straw Bale Dike Details", Page 5A.18.
- 6) All silt fences shall be constructed in accordance with Figure 5A.9 entitled "Silt Fence Details", Page 5A.20.
- 7) All sediment traps shall be constructed in accordance with Figure 5A.18 entitled "Grass Outlet Sediment Trap: ST-11, Details", Page 5A.38.

B. Reclamation Phase

Describe the proposed method of reclaiming the land affected by exploration by answering the following:

- | | | |
|--|-----|----|
| 1) Will all overburden be used to backfill the excavation? | YES | NO |
| 2) Will all overburden be covered with soil? | YES | NO |
| 3) Will overburden be graded to meet existing contours? | YES | NO |
| 4) Will all soils be seeded and mulched immediately upon grading? | YES | NO |
| 5) Will all personal property and refuse be removed from the site? | YES | NO |

Attach a detailed explanation if "NO" is checked for any of the above questions.

List the equipment you plan to use to complete site reclamation.

The following reclamation standards shall apply to this bluestone exploration authorization:

- B.1) Reclamation shall be completed no later than 1 year from the date of authorization of bluestone exploration.**
- B.2) Backfilling - Overburden materials must be used to backfill the excavation and are to be pushed back and placed to minimize exposed rock faces. Remaining rock faces must not exceed 10 feet in height or must not exceed pre-existing rock face heights.**
- B.3) Grading - All ridges, peaks and slopes created either by excavation of a mineral or by the disposal of spoil shall be left no steeper than the following: rock (ledge or bedrock) - 90 degrees depending on the condition and characteristics of the formation; talus (broken rock) - 37 degrees, or a slope of 1 vertical on 1 1/4 horizontal, unless the talus is to be covered and revegetated in which case the slope shall not exceed 26 degrees, or a slope of 1 vertical on 2 horizontal; or shall be left no steeper than the pre-existing slope conditions.**
- B.4) Revegetation - Any area designated for revegetation shall be covered with an amount and type of material sufficient to support the growth of the proposed plant material. A minimum of 6 inches of a cover material with a soil composition capable of sustaining plant growth shall be provided on all land to be revegetated. The amount of soil cover may be reduced if the applicant can demonstrate that a lesser amount will be sufficient to support the growth of the proposed plant material, or if it is determined that a lesser volume of soil currently exists at the exploration site.**

C. General Operating Conditions

- C.1) The required reclamation bond or other approved surety, in the amount of \$1300, shall be maintained in full force and effect until reclamation of the exploration authorization area is approved by the Department in writing. For applications received after January 1, 2014 the required financial security will be \$5,000.**
- C.2) Exploration site area must not exceed one acre and must not be located within 100 feet of a body of water.**
- C.3) There shall be no discharge of turbid waters to any area outside the limits of the land to be affected by exploration. Drainage and water control features shall be constructed to the extent necessary to achieve this performance standard.**
- C.4) No materials (originating from offsite) of any kind shall be brought into this exploration site, except those specified in the approved exploration activity authorization.**
- C.5) Prior to the commencement of and for the duration of the exploration activity authorization, the limits of the bluestone exploration authorization area must be staked at all corners.**

