

# Georgia Department of Natural Resources

Environmental Protection Division

Surface Mining Unit

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## **Instructions for Surface Mining Land Use Plan Development**

REFERENCES: Georgia Surface Mining Act, O.C.G.A. 12-4-1, et seq., as amended. Rules and Regulations for Surface Mining, Chapter 391-3-3, as amended.

### **I. What is a Surface Mining Land Use Plan?**

A Surface Mining Land Use Plan is a proposal which contains a specific plan of action, being based on sound engineering and conservation principles, for accomplishing the operator's mining plan, reclamation objective and the protection of adjacent watersheds from effects of erosion and siltation. A Surface Mining Land Use Plan must be approved prior to recommendation for issuance of a Surface Mining Permit. A Surface Mining Land Use Plan consists of:

1. An official Surface Mining Land Use Plan form that is supplied by the Environmental Protection Division. This form must be completed by the Mining Operator (discussed in II below) and be submitted along with ---
2. Maps, drawings and supportive documentation (discussed in Section II-1 below).
3. The Surface Mining Land Use Plan is available from the **Environmental Protection Division - Surface Mining Unit, 4244 International Parkway, Suite 104, Atlanta, Georgia 30354** and the **Department of Natural Resources web page, [www.dnr.state.ga.us](http://www.dnr.state.ga.us)**.

### **II. Instructions for Completing a Surface Mining Land Use Plan Form.**

Section I-1 - Description of Mining Operator's Company [ref. Chapter 391-3-3-.05].

Specify the name of the mining company, address, telephone number, and type of business. List the corporate officials and partnership members. Also provide the name, title, and telephone number of the on-site manager and company environmental contact the Division may contact during compliance inspections and / or the permitting process.

Section I-2- Land Ownership [ref. Chapter 391-3-3-.05]. Specify total acreage of owned and leased lands and the name and address of the owner and/or lessee. In addition, provide figures on the amount of owned or leased lands to be affected by the mining operation.

Section I-3 - General Site Location. Provide written directions to the mine site from a readily found landmark or intersection of county or state roads. Also provide the latitude and longitude of the mine.

Section I-4 - Mineral or Material to be Mined and Method of Mining [ref. Chapter 391-3-3-.05]. Name the mineral or material which will be extracted by the surface mining operation and describe the particular method or technique of surface mining (examples: box cut, lateral movement method, in-stream sand dredging, etc.) and the type of earth moving or mining machinery to be used for the surface mining operation.

Section I-5 - Classification of Lands in Vicinity of Mine Site [ref. Chapter 391-3-3-.05]. Provide a brief description of the characteristics of the land proposed to be affected by mining and a brief description of the characteristics of the surrounding lands and community in the vicinity of the mine site (examples: rural, urban, industrial, agricultural, residential; isolated, sparsely populated). List properties on National Register of Historic Places located within one mile (5,280) feet of proposed mining site.

Section I-6 - Mining Dates/Reclamation Dates [ref. Chapter 391-3-3-.05(2)]. Provide anticipated dates to begin and complete each.

Section I-7 - Information on Other Permits\*. List any previous Georgia Surface Mining Permit by permit number which has been suspended, revoked, or for which bond was forfeited. Specify other applicable state and/or federal environmental permits for which you are applying in relation to this surface mining operation. List all local government approvals and/or permits required and applied for regarding this surface mining operation.

**\* Note: for paragraphs B and C, please contact appropriate permitting authority.**

## Section II Performance Criteria For Mining Plan and Mining Activities

Section II-1 - Details to be Included on Maps/Drawings and Supporting Documentation [ref. Chapter 391-3-3-.07]. This section explains what is generally expected to be on the maps submitted as part of this Surface Mining Land Use Plan. Additional submissions may be required by the Division prior to approval of this Plan.

- A. Detailed maps and engineering drawings showing:
1. map/drawing scales, north arrow, title block, seals and signatures of plan preparers;
  2. a location sketch of the project relative to roadways, municipalities, major streams and other identifiable landmarks;
  3. a boundary line map of the property to be mined, locating lands within the boundary to be affected by mining; metes and bounds will be shown;

4. contours, existing and proposed, for that portion of the area being mined. The following are recommended contour intervals:

<u>Scale of Map</u>	<u>Slope of Ground</u>	<u>Interval, Ft.</u>
Large (1 in. = 100 ft. or less)	Flat	0.5 or 1
	Rolling	1 or 2
	Hilly	2 or 5
Intermediate (1 in. = 100 ft. to 500 ft.)	Flat	1, 2 or 5
	Rolling	2 or 5
	Hilly	5 or 10

5. streams, lakes or ponds, drainage areas, flood prone areas, wetlands, vegetation and existing structures;
6. the proposed alteration of the area, including limits of clearing and grading, access and haul roads, buildings and other structures;
7. location and extent of temporary and permanent erosion and sedimentation control measures, including both vegetative and structural measures;
8. mining advancement or phases;
9. boundaries of soils present at the site;
10. drainage ditches, pipes, cross-drains, swales and diversion berms; and
11. provide cross sections and plan drawings where necessary to detail activities.

- B. Supportive documentation (general) shall include engineering drawings and specifications, calculations, charts, graphs, maps and other data and information used in the design and layout of the measures installed.

Note: All maps/drawings and supporting documents shall be listed by title and page count on the final page of the Surface Mining Land Use Plan as enclosures/attachments.

Section II-2 - Site Survey Control [ref. Chapter 391-3-3-.05]. Provide details of survey and boundary/control markers (examples: identifier - ip = iron pin, cp = concrete post, etc.; location - page 3 of the attached drawings).

Sections II-3 through II-10 - These sections are self-explanatory and require no written entry on the form. The maps, drawings and supporting documentation shall address the "plan of action" to control potential erosion and sedimentation problems. The site specific section will address any items which are unique to this particular site. The operator will

coordinate with the consulting mining engineer and the Division permitting officer to identify any special site items required for plan approval.

### Section III Performance Criteria For Reclamation

Section III-1 - This section is self-explanatory and requires no entry on the form. The maps, drawings, and supporting documentation must address the intended reclamation objectives.

### Section IV Additional Operator Submissions

Section IV-1 - Bonding [ref. Code § 12-4-75(3)]. This section is self-explanatory and advises the mining company of their obligations regarding bonding of lands to be affected by surface mining.

Section IV-2 -This section is self-explanatory and requires no entry on the form.

Section IV-3 - Amendment to Plan [ref. Code § 12-4-75(2)]. This section is self-explanatory and advises the mining company of procedures necessary should the operator decide to change or vary from the approved plan. The operator is required to contact the Environmental Protection Division for forms and instructions if a change is proposed.

Section IV- 4 - Change of Ownership of Mining Operation [ref. Code § 12-4-75(1)]. This section is self-explanatory and advises the mining operator of requirements to be met should a change of ownership take place.

Section V- List Attachments -This section is self-explanatory.