



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 (SMLUP)?

A Surface Mining Land Use Plan is a proposal that contains a specific plan of action, based on sound engineering and conservation principles, to accomplish the operator's mining plan and reclamation objective, while protecting adjacent watersheds from the effects of erosion and siltation. A Surface Mining Land Use Plan must be approved prior to the recommendation to issue a Surface Mining Permit.

A Surface Mining Land Use Plan consists of:

1. An official Surface Mining Application and Land Use Plan form, which must be completed by the mining operator (discussed in Section II below). This form is available for download from the Environmental Protection Division's (EPD) website at <http://epd.georgia.gov/surface-mining> or from EPD's Surface Mining Unit at 4244 International Parkway, Suite 104, Atlanta, GA 30354.
2. Maps, drawings, and supportive documentation (discussed in Section V below), which are submitted with the form mentioned above.

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

Section I. Mine Information [ref. Chapter 391-3-3-.05]

Provide the mine's name, address, latitude and longitude (decimal degrees accurate to 0.0001°), directions from the nearest interstate, and contact information for the on-site representative.

Indicate whether this SMLUP is for a new mine or for the re-permitting of an existing mine (the existing mine may be in operation under another permit or previously permitted).

Section II. Operator and Owner Information [ref. Chapter 391-3-.05]

Part A: Provide the name of the mining company, address, telephone number, e-mail address, and type of business. List the corporate officials and partnership members.

Part B: List the lessees and/or owners of all properties that are in the affected acres of the requested permit area. The total acreage listed as "Affected Acres" is equivalent to "Permitted Acres" shown on the SMLUP maps, therefore these numbers should match exactly.

Section III. General Mining Information

Part A: Name the mineral or material that will be extracted by the surface mining operation and describe the particular method or technique of surface mining.

Part B: Provide a brief description of the characteristics of the land proposed to be affected by the mining and a brief description of the characteristics of the surrounding lands and community in the vicinity of the mine site (e.g., rural, urban, industrial, agricultural, residential, isolated, sparsely populated), including properties on the National Register of Historic Places located within one mile of the proposed mining site.

Part C: Provide the anticipated dates to begin and complete mining and reclamation. Please note the final reclamation date should include two growing seasons (approximately 24 months) past the completion date. If mining is completed prior to the above stated date, the operator shall complete the reclamation in accordance with this plan within 24 months of completion of mining.

Section IV. Information on Other Permits

Part A: List any previous Georgia Surface Mining Permit, by permit number, which has been revoked, suspended, or for which bond was forfeited.

Part B: Specify other applicable state and/or federal environmental permits for which you are applying in relation to this surface mining operation. Note that most surface mines do require coverage under the NPDES Industrial Storm Water General Permit. Please attach a copy of the Notice of Intent if you file for coverage under this permit.

List all local government approvals and/or permits required and applied for regarding this surface mining operation.

Section V. Performance Criteria for Mining Plan and Mining Activities

Please review the criteria for plan drawings with careful consideration for site survey control. Permanent accessible benchmarks and markers are expected to delineate all permitted areas and to be maintained to facilitate both permitting and compliance evaluations. Please provide detailed descriptions of all identifiers and their location. Site inspections will evaluate markers and survey control before recommending issuance of a Surface Mining Permit.

Part 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 SMLUP. These maps can be broken down into three categories: Boundary and Landmark, Erosion and Sediment Control, and Reclamation. Additional submissions may be required by EPD prior to approval of the plan.

Surface Mining Land Use Plans are prepared to show:

- Map/drawing scales; north arrow; title block with Mine ID No.; 24-hour contact and telephone number; seals and signatures of plan preparers;
- Location sketch of the project relative to roadways, municipalities, major streams, and other identifiable landmarks;
- A boundary line map of the property to be mined, the “permit boundary” locating lands within the boundary to be affected by mining and buffers; metes and bounds;

- 25-foot minimum buffer between the affected area and property line and/or 50-foot minimum buffer if affected area is adjacent to a public road or occupied structures;
- 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 (Feet)</u>
Large (1"=100' or less)	Flat	0.5 or 1
	Rolling	1 or 2
	Hilly	2 or 5
Intermediate (1"=100'-500')	Flat	1, 2, or 5
	Rolling	2 or 5
	Hilly	5 or 10

- Streams, lakes or ponds, drainage areas, flood prone areas, wetlands, vegetation, and existing structures;
- The proposed alteration of the area, including limits of clearing and grading, access and haul roads, stockpiles, overburden storage, buildings, and other structures;
- Location and extent of erosion and sedimentation control measures, including both vegetative and structural measures;
- Mining advancement or phases;
- Drainage ditches, pipes, cross-drains, swales and diversion berms;
- Provide cross sections and plan drawings where necessary to detail activities;
- Pit pump-out discharge details if proposed;
- Reclamation plan with estimated final contours and the following notes:
 - All mining equipment and refuse will be removed from the mine in accordance with state rules and regulations
 - All slopes will be reclaimed to a slope of 3:1 or flatter.
 - The mine pit will be either left as a lake or permanently vegetated.

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.

All maps/drawings and supporting documents shall be listed by title and page count on the final page of the plan as enclosures/attachments.

Part 2: Site Survey Control [ref. Chapter 391-3-3-.05]

Provide details of survey and boundary control markers (e.g., identifier-IP = iron pin, CP = concrete post, color of flagging, etc.; location-page 3 of the attached drawings). Permanent accessible benchmarks and markers are expected to delineate all permitted areas and to be maintained to facilitate both permitting and compliance evaluations. Please provide detailed descriptions of all

identifiers and their location. Site inspections will evaluate markers and survey control before recommending issuance of a Surface Mining Permit.

Parts 3-10: The 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 that are unique to the particular site. The operator will coordinate with the consulting mining engineer and the EPD permitting officer to identify any special site items required for approval.

Section VI. Performance Criteria for Reclamation

This section is self-explanatory and requires no entry on the form. The maps, drawings, and supporting documentation must address the intended reclamation objectives. The reclamation page of the drawings must include the Reclamation Notes: all mining equipment and refuse will be removed from the mine in accordance with state rules and regulations; all slopes will be reclaimed to a slope of 3:1 or flatter; and the mine pit will be either left as a lake or permanently vegetated.

Section VII. Additional Operator Submissions

Part 1: Bonding [ref. OCGA 12-4-75(2)]

This section is self-explanatory and advises the mining company of its obligations regarding bonding of lands to be affected by surface mining. The required bonding formats are available for download at www.epd.georgia.gov/surface-mining-forms. The bond rate is currently set at \$2,500 per acre for quarries and \$1,500 per acre for all other mining.

Part 2: Annual Permit Status Report

This section is self-explanatory and requires no entry on the form. The Annual Permit Status Report form can be found at www.epd.georgia.gov/surface-mining-forms and should be submitted every year until the mine is released.

Part 3: Amendment to Plan [ref. OCGA 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 EPD for forms and instructions if a change is proposed. Amendment forms are available at <http://epd.georgia.gov/surface-mining>.

Part 4: Change of Ownership of Mining Operation [ref. OCGA 12-4-75(2)]

This section is self-explanatory and advises the operator of requirements to be met should a change in ownership take place. The Surface Mining Permit is not transferrable.

Section VII Attachments

This section is self-explanatory.