

**WARRIOR INVESTMENT COMPANY, INC.**

REESE'S BRANCH MINE, P-3924, R-8

ALABAMA SURFACE MINING COMMISSION  
SURFACE MINING PERMIT APPLICATION

**P A R T   I V**

Prepared by:

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**PART IV RECLAMATION PLAN**

**A. Postmining Land Use.**

(1) Describe the proposed postmining land use(s) for the permit area. If more than one land use is proposed, show on a map and give acreage for each use. Include comments from the legal owner of record concerning the proposed land use. (780.23, 816.133)

<b><u>Increment</u></b>	<b><u>Area</u></b>	<b><u>Land Use</u></b>
<b>1</b>	64 Acres	Undeveloped/No Current Use
<b>2</b>	277 Acres	Undeveloped/No Current Use
<b>5</b>	11 Acres	Undeveloped/No Current Use

The proposed mine land use is a combination of Undeveloped/No current use and Forestry Reclamation Approach. Forestry Reclamation Approach is applied to Increment No. 2 only.

**Total Permit Area      352 Acres**

All grading, contouring, overburden restabilization, revegetation and husbandry practices will be adhered to as outlined in the approved original permit application.

**B. Grading and Contouring**

(3) On appropriate map(s), show representative values for the following: (780.18(b)(3), 816.102)

(a) Percent of slope before mining; and

(b) Proposed post-mining slope including final slope of the highwall(s) in percent.

Land slope measurements on the permit map indicate an average pre-mining slope of 25%. The final average post-mining slope will not exceed the pre-mining slope. The maximum final slope including final highwall slopes will not exceed the steepest pre-mining slope, 50%. Please note that the term pre-mining as used above addresses the state of the land prior to any mining having occurred, whether conducted by Warrior Investment Company or others.

(4) Complete the following:

(a) Is the mining operation to be conducted on a pre-existing (prior to August 3, 1977) highwall?

Yes ( ) No

(b) Is the operation of such limited slope as to not generate enough material to completely backfill the re-affected or enlarged highwall?

( ) Yes  No

If Yes, provide analysis to show maximum extent of backfilling possible.

## **OVERBURDEN RESTABILIZATION PLAN**

Overburden shall be backfilled, compacted, and graded so that the post mining slope shall approximate the original pre-mine slopes. The mining method of area mining will be utilized at this proposed mine site. Backfilling, compacting and grading, of the final highwall slope only, will be done using dozers, farm-type tractors will then be used to disc the overburden to its final contour, decrease compaction, and increase the mechanical breakage of the surface layer. The disturbed area, excluding the final highwall slope, will be graded no steeper than the approximate original contour. Rocks 24" in diameter that remain upon the surface, if any, will be hand collected and buried. At this time the following criteria will be used to evaluate the textural quality of the graded overburden:

- A) Rocks of size larger than ten (10") inches shall not exceed 10% by weight of the substitute material, and no rocks larger than twenty four (24) inches can be included in the substitute material.
- B) Rock between three (3") inches and ten (10") inches in size shall not exceed 15% by weight of the topsoil substitute material.
- C) The substitute material shall not contain more than 50% by weight of materials between 3 and .75 inches in size.
- D) The substitute material shall contain at least 30% by weight of material less than 2 millimeters in size.

If the above criteria cannot be met, the Applicant shall redisc the overburden and resample. If increasing the mechanical breakage will not enhance the graded overburden to a satisfactory level, additional soil will be hauled and spread on site until the above criteria is achieved.

Stabilization of the Final Highwall material shall be achieved by the planting of warm or cool season perennials as outlined in Part IV-C-5 of the permit application. Restabilization shall be achieved as outlined in Section 816.06 if necessary.

NOTE: Particle size limitations do not apply to post-mining landuses of undeveloped/no current use with the Forestry Reclamation Approach (FRA).

C. Revegetation

- (1) Outline procedures for soil testing required to determine type and amount of soil amendments to be applied and to evaluate results of topsoil handling and replacement. (780.18,816.25)

Topsoil Substitution Material will be sampled systematically and sent to the Auburn University Testing Laboratory, for analyses to determine type and amount of soil amendments necessary to maintain vegetative growth.

The chemical analyses will consist of the following parameters: pH, % Sulfur, Phosphorus, Potassium, Magnesium, Calcium, Alkalinity, NO<sub>3</sub>-N, and Recommendations for the amounts of Limestone, Nitrogen, P<sub>2</sub>O<sub>5</sub>, and K<sub>2</sub>O to be added to the soil.

The physical analyses will consist of the following parameters: % Sand, % Silt, % Clay, Textural Classification, and Available Water Capacity.

- (2) Are selected overburden materials to be used as a supplement or substitute for topsoil?

Yes. ( ) No.

If yes, provide results of analyses, trials, and tests required under Section 816.22(e). (779.21)

See original Topsoil Variance Application and [Addendum to Topsoil Variance Application submitted with Revision No. 8](#).

- (3) Are commercial or introduced species to be used?

( ) Yes  No

If yes, give a narrative with supporting references which show that the species meet the requirements of Section 816.112. [780.18, 816.112]

(4) Is the area to be reclaimed for fish and wildlife habitat?

(XX)Yes. ( ) No.

If yes, list the species of plants to be used with a brief description of how they meet the criteria of Section 816.97(d)(6). [780.18(b)(5 & 6), 816.97(d)(6)]

1. During the reclamation process the disturbed area will be regraded in such a manner as to create numerous small water holding depressions approximately 1/4 acres in size of maximum depth of 2 feet to enhance the area for fish and wildlife.
2. At the proposed mine site, all sediment basins, if approved by ASMC and the land owners, will be temporary water impoundments.
3. Various herbaceous species including, but not limited to, Browntop Millet, Kobe and Sericea Lespedeza, Hairy Vetch, Ryegrass and Wheat may be planted in scattered and random locations to provide food and cover for wildlife that closely resemble pre-mining condition. These plants will be added in addition to the vegetation proposed in Part IV of this permit application.
4. As determined by the post mining land use, all reclaimed areas greater than fifty (50) acres will be broken up by vegetation types to provide maximum variation of vegetation.

The proposed post mining landuse for the entire permit area will be Undeveloped/No Current Use (Forestry Reclamation Approach and/or Undeveloped/No Current Use.

(5) Complete the following schedules for each increment or sub-area of the permit area. [780.18(b)(5)]