

**BLACK WARRIOR MINERALS, INC.**

MINE NO. 2, P-3987

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. Landowner comment letters are forthcoming. (780.23, 816.133)

<u>Increment</u>	<u>Area</u>	<u>Land Use</u>
<b>1</b>	160 Acres 6 Acres 5 Acres	Undeveloped/No Current Use Permanent Water Impoundments (Fish and Wildlife) Permanent Road
<b>2</b>	268 Acres 12 Acres	Undeveloped/No Current Use Permanent Water Impoundments (Fish and Wildlife)
<b>3</b>	116 Acres 4 Acres	Undeveloped/No Current Use Permanent Water Impoundments (Fish and Wildlife)
<b>4</b>	437 Acres 4 Acres 1 Acres	Undeveloped/No Current Use Permanent Water Impoundments (Fish and Wildlife) Permanent Road
<b>5</b>	374 Acres 14 Acres	Undeveloped/No Current Use Permanent Water Impoundments (Fish and Wildlife)
<b>Total Permit Area</b>	<b>1,401 Acres</b>	

See attached [Land Use Map](#).

(2) Is the proposed land use different from the current land use? [780.23, 816.133]

Yes ( ) No      If yes, complete the following:

(a) Is the area zoned for the proposed land use?

Yes ( ) No ( ) N/A

The permit area is zoned by Jefferson County as I3-S (Strip Mining District).

(b) Is the proposed use compatible with adjacent land uses and applicable local and state land use policies?

Yes ( ) No

(c) Explain the feasibility of the proposed land use as related to land use trends, and explain how the land use will be developed, achieved, and sustained.

The area being added is owned by M LLC, Sumlearn and Black Warrior Minerals. See land owner comments in original permit application.

(d) Include letters of commitment from outside parties ensuring the provision of any necessary public facilities and any state and local governmental agencies which have to initiate, implement, approve or authorize the proposed land use.

The area being added is owned by M LLC, Sumlearn and Black Warrior Minerals. See land owner comments in original permit application.

(e) Enclose design plans for the proposed post-mining land use, if applicable.

See Part III-B-2(a) General Plan for design plans.

**B. Grading and Contouring**

(1) Enclose detailed plans with appropriate cross sections, or maps which satisfy the requirements of Section 780.18(b)(3&4).

See Attached [Permit Map](#) and [Supplement Reclamation Cross-Sections from P-3950](#)

(2) Complete the following timetable: [780.18 (b) (1)]

Increment	# months after operation begins	% of increment or permit which will be graded and contoured
1	6.0 months	0%
	9.0 months	25%
	12.0 months	50%
	15.0 months	75%
	18.0 months	100%

Increment	# months after operation begins	% of increment or permit which will be graded and contoured
2	18.0 months	0%
	21.0 months	25%
	24.0 months	50%
	27.0 months	75%
	30.0 months	100%

Increment	# months after operation begins	% of increment or permit which will be graded and contoured
3	30.0 months	0%
	33.0 months	25%
	36.0 months	50%
	39.0 months	75%
	42.0 months	100%

\*NOTE: Grading and contouring overburden shall follow coal removal by no more than 180 days.

Increment	# months after operation begins	% of increment or permit which will be graded and contoured
4	42.0 months	0%
	45.0 months	25%
	48.0 months	50%
	51.0 months	75%
	54.0 months	100%

Increment	# months after operation begins	% of increment or permit which will be graded and contoured
5	42.0 months	0%
	45.0 months	25%
	48.0 months	50%
	51.0 months	75%
	54.0 months	100%

Increment	# months after operation begins	% of increment or permit which will be graded and contoured
6	42.0 months	0%
	45.0 months	25%
	48.0 months	50%
	51.0 months	75%
	54.0 months	100%

\*NOTE: Grading and contouring overburden shall follow coal removal by no more than 180 days.

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

See Attached [Permit Map](#) and [Supplement Reclamation Cross-Sections from P-3950](#)

(Attachment IV-B-3-A)

- (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 23%. The final average post-mining slope will not exceed the pre-mining slope. Final highwall slopes will not exceed the steepest pre-mining slope, 40%. 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 Black Warrior Minerals, Inc. 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.

**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 or 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?

(XX) Yes. ( ) No.

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

A topsoil waiver was granted to P-3950 for its initial permit area that includes the 53 acres being added by this revision. All of the area being added by P-3987 R-2 has already been disturbed under P-3950.