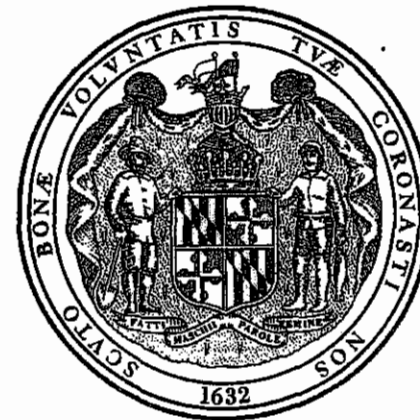


CALENDAR YEAR 2001
EIGHTIETH ANNUAL REPORT
of the
MARYLAND BUREAU OF MINES



HON. PARRIS N. GLENDENING
Governor of Maryland

DEPARTMENT OF THE ENVIRONMENT
JANE T. NISHIDA, Secretary

WATER MANAGEMENT ADMINISTRATION
ROBERT SUMMERS, Director

MINING PROGRAM
C. EDMON LARRIMORE, Program Manager

BUREAU OF MINES
JOHN E. CAREY, Director



MARYLAND DEPARTMENT OF THE ENVIRONMENT

2500 Broening Highway □ Baltimore, Maryland 21224

410-631-3000 □ 1-800-633-6101 □ <http://www.mde.state.md.us>

Parris N. Glendening
Governor

Water Management Administration
Bureau of Mines

160 South Water Street * Frostburg, Maryland 21532
Telephone: (301) 689-6104

Jane Nishida
Secretary

A MESSAGE FROM THE SECRETARY

Protecting and restoring Maryland's environment requires the participation and cooperation of all members of society, including businesses, citizens, and all levels of government. MDE's primary mission is to protect and restore the quality of Maryland's air, water and land resources for the benefit of the environment, public health and future generations, while also supporting and balancing economic development to ensure an excellent quality of life for all Marylanders. We believe that a strong economy and a clean environment, not only go hand-in hand, but are mutually reinforcing. The information in this publication is designed to increase your understanding of our programs.

Jane T. Nishida

TABLE OF CONTENTS

	<u>Page</u>
Executive Summary	1
Mining Program Personnel	2
Summary of Statistics - Coal Production	3
Summary of Statistics - Employees	3
Tonnage by Coal Seams, County and Basin	4
Production, Mining, and Reclamation Statistics by Permit	5
Summary of Land Mined, Backfilled and Planted	8
Permitting Activity	9
Land Reclamation Committee Membership	10
Land Reclamation Committee Functions and Duties	11
Reclamation of Surface Mined Lands	12
Abandoned Mine Land Reclamation	13
Acid Mine Drainage Reclamation	15
Mine Foreman and Fire Boss Examinations and Certifications	18
Inspection and Enforcement Activities	18
Mining Permits Issued by Year and Permittee	19

EXECUTIVE SUMMARY

During Calendar Year 2001, Maryland operators produced 4,771,802 tons of coal. Surface coal mine production was 1,488,062 tons —826,013 in Allegany County and 662,049 in Garrett County. Deep coal mine production was 3,283,740 tons, all in Garrett County.

Eighty-six permitting actions were received and 78 permitting actions were issued, including issuance of five original permits and two permit amendments totaling 187 acres.

Two hundred five acres were affected, 306.5 acres backfilled, and 274.5 acres planted. Bond was totally released on 196 acres. Seven permits were completed, with bond being totally released. There was one permit forfeited.

Six hundred eighty-four inspections were performed on coal mining operations. Six Notices of Violations were issued. Sixty Citizen Complaints were received and investigated.

The Land Reclamation Committee met six times and approved two reclamation plans. The Committee also evaluated the revegetation on 136 acres eligible for Phase II bond release and approved 99 acres as meeting the standards for release, and approved 2 reclamation plan changes.

During 2001, there was one abandoned mine land project under construction which included 6 acres and totaled \$170,000. There was one forfeiture project under construction, which included 20 acres and totaled \$176,000.

FOR CALENDAR YEAR 2001

MINING PROGRAM

C. Edmon Larrimore Program Manager, Mining Program
Ruth D. Booth Administrator

BUREAU OF MINES

John E. Carey Director, Bureau of Mines
Barbara Murphy Office Secretary

Abandoned Mine Lands Section

Michael P. Garner Section Chief
John C. Eilers Energy Resources Administrator
Bradley Nee Water Resources Engineer
Randall Matthews Conservation Associate

Permitting and Regulatory Section

Stephen M. Layton Section Chief
Mark Carnay Water Resources Engineer
Alan V. Hooker Energy Resources Administrator
Sallie Shuman Administrative Specialist

Planning, Research & Development Section

Constance A. Lyons Section Chief
Tobias C. Joy Natural Resources Planner
Joseph E. Mills Natural Resources Planner

Laboratory & Support Services

Mary Lynn Pegg Laboratory Scientist
Julie O'Connor Chemist
J. Edward Lyons Computer User Support Specialist

Mining Inspection and Compliance

Raymond Karlstrand Field Supervisor
Larry Johnson Env. Compliance Specialist
Thomas P. Murray Env. Compliance Specialist

FOR THE CALENDAR YEAR 2001
REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 2001 totalled 4,771,802.48 tons. Production in 2001 represents an increase of 150,198.09 tons from the 2000 production of 4,621,604.39 tons.

SUMMARY OF 2001 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegheny County	Garrett County	Total
Strip	828,013.21	662,049.28	1,489,062.49
Deep	.00	3,283,739.99	3,283,739.99
Auger	.00	.00	.00
TOTALS	828,013.21	3,945,789.27	4,771,802.48

EMPLOYEES²

Type of Mine	Allegheny County	Garrett County	Total
Deep	0	245	245
Strip	138	67	205
TOTALS	138	312	450

¹Reports submitted by Maryland mining operators.

²These figures do not include office, supervisor personnel, or independent truck haulers.

FOR THE CALENDAR YEAR 2001
TONNAGE BY COAL SEAMS

Allegheny County

Waynesburg	48,621.47
Sewickley (Tyson)	76,703.68
Redstone	222,647.37
Pittsburgh	342,053.79
Morantown	61,747.23
L. Pittsburgh	57,361.31
Franklin	16,878.38
Harlem	0
Bakerstown	0
Freeport	0
Kittanning	0
Federal Hill	0
Barton	0
TOTAL	828,013.21

Garrett County

Sewickley	8,963.39
Pittsburgh	75,293.41
Morantown	7,194.23
L. Pittsburgh	14,149.66
Franklin	38,762.05
Barton	281,241.21
Elk Lick	0
Harlem	0
Bakerstown	734,921.58
Brush Creek	0
Freeport	2,764,877.21
Kittanning	14,812.06
Redstone	5,574.47
TOTAL	3,945,789.27

TONNAGE BY BASIN

Lower Youghiogheny	0
Upper Youghiogheny	0
Casselman	0
Casselman (Cherry Creek)	0
Potomac	3,531,916.23
George's Creek	1,239,886.25
TOTAL	4,771,802.48

CALENDAR YEAR 2001
COAL PRODUCTION, MINING AND RECLAMATION STATISTICS FOR ALLEGANY & GARRETT COUNTIES*

*This table includes all permits on which there was production, mining, backfilling or planting activity. This table does not include permits on which all bonds have been released or forfeited, or permits on which bonds are still held but no production or reclamation activity occurred.

ALLEGANY COUNTY

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)		Auger	Acres Affected	Acres Backfilled	Acres Planned
			Deep	Strip				
Barton Mining Company, Inc.	338	L-Pittsburgh		28,649.11		0.0	0.0	0.0
	427	Pittsburgh		105,618.20		22.0	0.0	0.0
		Morantown		22,821.70				
		Sewickley		33,566.68				
		Redstone		5,278.58				
Brushhear Coal Mines	432	Pittsburgh		35,897.08				
				0.00		7.0	0.0	0.0
Buffalo Coal Co., Inc.	264	Franklin		8,306.07		3.0	0.0	0.0
	436	Franklin		8,072.28		4.0	0.0	0.0
Cilea Coal Co., Inc.	422	Pittsburgh		0.00		0.0	9.0	6.0
	213	Waynesburg		9,382.08		1.0	0.0	0.0
Coburn Mining, Inc.	184	Pittsburgh		1,089.00		0.0	0.0	0.0
	437	Pittsburgh		23,522.40		10.0		
Fairview Coal Co. Inc.	399	Pittsburgh		5,675.30		0.0	9.0	9.0
		Redstone		5,295.62				
G & S Coal Company, Inc.	430	Morantown		544.12				
		Pittsburgh		17,368.40		8.0	15.0	15.0
Jackus Development Co., Inc.	440	Morantown		7,266.43				
	411	L-Pittsburgh		5,236.13		6.0	0.0	0.0
Mountainair Mining Corp.	438	Waynesburg		39,228.38		6.0	9.5	9.5
		Pittsburgh		1,380.13				
Tri-Star Mining, Inc.	419	Morantown		1,968.62				
		Pittsburgh		28,784.48		34.0	12.0	12.0
		L-Pittsburgh		664.37				
		Morantown		7,637.80				
		Sewickley		16,126.80				
		Redstone		13,780.57				

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)		Auger	Acres Affected	Acres Backfilled	Acres Planned
			Deep	Strip				
United Energy Coal, Inc.	40	Pittsburgh		35,943.24		38.0	28.0	48.0
		Redstone		51,367.14				
		Sewickley		4,091.22				
		Morantown		609.65				
	207	Pittsburgh		54,900.42		29.0	0.0	0.0
		Redstone		38,004.06				
		Sewickley		6,844.38				
		Morantown		228.70				
	247	Pittsburgh		36,914.18		22.0	47.0	47.0
		Redstone		23,088.66				
		Sewickley		17,401.07				
	368	Redstone		534.80		11.0	30.0	30.0
Sewickley			8,667.76					
414	Redstone		22,414.66		0.0	4.0	0.0	
423	Sewickley		5,908.45					
	Pittsburgh		0.00		27.0	14.0	14.0	
439	Redstone		26,285.76		0.0	0.0	0.0	
	Sewickley		30,461.17					
	Morantown		12,627.32					
Win-More Mining & Const. Co., Inc.	433	Morantown		1,310.24		7.0	0.0	0.0
		Pittsburgh		6,275.05				
	Redstone		3,763.81					
	Morantown		3,868.69					
TOTAL ALLEGANY COUNTY						235.00	177.50	191.50

826,013.21

TOTAL ALLEGANY COUNTY

GARRETT COUNTY

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Auger	Acres Affected	Acres Backfilled	Acres Planted
			Deep	Ship	Auger	Acres Affected				
Buffalo Coal Co., Inc. G & S Coal Company, Inc.	367	Freeport	0.00				4.0	28.0	23.0	
	365	U-Freeport	33,062.97				10.0	35.0	35.0	
		U-Kiltanning	14,812.06				--	--	--	
George Creek, Inc.	421	Franklin	11,937.63				16.0	0.0	0.0	
	435	Bakerstown	9,677.25				18.0	0.0	0.0	
Pine Mountain Coal Company	DM111	Baron	5,367.75				--	--	--	
	DM109	Bakerstown	546,559.00				0.0	0.0	0.0	
Tri-Star Mining, Inc.	431	Bakerstown	176,886.00				72.0	22.0	22.0	
	424	Pittsburgh	7,563.52				2.0	3.0	3.0	
		Moranstown	2,714.36				--	--	--	
		Redstone	1,201.72				--	--	--	
Metlak Coal Corporation	419	Pittsburgh	67,739.89				--	--	--	
		L-Pittsburgh	14,149.86				--	--	--	
		Redstone	4,372.75				--	--	--	
		Moranstown	4,479.87				--	--	--	
		Senickley	8,963.39				--	--	--	
	429	Baron	275,873.46				23.0	41.0	0.0	
	434	Franklin	26,824.42				27.0	0.0	0.0	
	DM101	Freeport	2,731,614.24				0.0	0.0	0.0	
TOTAL GARRETT COUNTY			3,283,739.99	662,049.28			172.00	129.00	83.00	
TOTAL BOTH COUNTIES			3,285,739.99	1,488,062.48			407.00	306.50	274.50	

FOR CALENDAR YEAR 2001
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2001
(By Geological Basin)

	Permitted	Affected	Backfilled	Planted	Bond Released*
Alegheny County:					
Georges Creek Basin	186.00	235.00	177.50	191.50	128.00
Garrett County:					
Georges Creek Basin	0.00	52.00	44.00	3.00	0.00
Potomac River Basin	1.00	120.00	85.00	80.00	68.00
Casselman River Basin**	0.00	0.00	0.00	0.00	0.00
Cherry Creek Basin	0.00	0.00	0.00	0.00	0.00
Upper Yough Basin	0.00	0.00	0.00	0.00	0.00
Lower Yough Basin	0.00	0.00	0.00	0.00	0.00
TOTAL GARRETT COUNTY	1.00	172.00	129.00	83.00	68.00
TOTAL BOTH COUNTIES	187.00	407.00	306.50	274.50	196.00

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2001

Alegheny County:					
Georges Creek Basin	6,924.00	5,715.00	5,185.47	5,272.30	4,367.00
Garrett County:					
Georges Creek Basin	2,613.00	2,518.95	2,306.85	2,531.01	2,609.60
Potomac River Basin	4,528.00	3,466.70	3,616.80	3,735.70	3,809.40
Casselman River Basin**	1,416.60	1,135.00	1,260.50	1,142.20	1,266.80
Cherry Creek Basin**	667.00	671.50	578.90	545.80	659.95
Upper Yough Basin	216.00	157.35	215.35	189.30	261.50
Lower Yough Basin	1,335.00	914.00	1,135.06	1,078.16	855.40
TOTAL GARRETT COUNTY	10,775.60	8,863.50	9,113.46	9,222.17	9,461.65
TOTAL ALLEGANY COUNTY	17,699.60	14,578.50	14,298.93	14,494.47	13,828.65

*Total Bond Release by the Bureau.

**Total Casselman Geological Basin.

FOR THE CALENDAR YEAR 2001
LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 2001:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

David Fluke (Chairman), Water Management Administration
Stephen M. Layton, Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Ed Golden, Wildlife Division (01/01 - 08/01)
Jim Mullen, Wildlife Division (09/02 - 12/31)
Robert Webster, Forestry Division
Alan Klotz, Freshwater Fisheries

CITIZEN REPRESENTATIVES

Edgar Harman, Garrett County
Robert Davis, Allegany County

COUNTY REPRESENTATIVES:

Margaret Jamison, Garrett County
Tim Carney, Allegany County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Craig Hartsock, Allegany Soil Conservation District
Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Jerry Duckett
Tim Schwinebart

PERMITTING ACTIVITY CALENDAR YEAR 2001												
Type of Application	Surface Mines			Underground Mines			Other Facilities			Totals		
	App. Rec.	Issued	Acrea	App. Rec.	Issued	Acrea	App. Rec.	Issued	Acrea	App. Rec.	Issued	Acrea
Original Permits	5	4	161	0	0	0	0	0	0	5	4	161
Permit Increments	0	0	0	0	0	0	0	0	0	0	0	0
Modifications/Revisions With Acreage	2	2	26	0	0	0	0	0	0	2	2	26
Modifications/Revisions Without Acreage	31	24		3	3		0	0		34	27	
Transfers	0	0		0	1		0	0		0	1	
Renewals	7	4		0	1		1	0		8	5	
Prospecting Permits	1	1		0	0		0	0		1	1	
Prospecting Letter of Intent	7	7		0	0		0	0		7	7	
Operators License Original	1	1		0	0		0	0		1	1	
Operators License Renewals	24	26		4	4		0	0		28	30	
Totals	78	69	187	7	9	0	1	0	0	86	78	187

**FOR THE CALENDAR YEAR 2001
FUNCTIONS AND DUTIES OF THE LAND RECLAMATION COMMITTEE**

The Land Reclamation Committee is responsible for the approval of all reclamation plans submitted, as part of an application for a permit, to the Bureau of Mines and for the oversight of land reclamation activities on surface coal mining operations in Maryland.

The Land Reclamation Committee visits proposed and active mining sites to:

- (1) determine the suitability of proposed reclamation plans;
- (2) review mining and reclamation progress; and
- (3) evaluate the success of revegetation practices.

During 2001, the Land Reclamation Committee conducted site visits on 4 days. These visits included field reviews of 2 proposed mining sites and 9 revegetation planting reports.

The Land Reclamation Committee conducts meetings to:

1. Review and approve reclamation plans;
2. Review reclamation progress on active mining permits;
3. Evaluate the revegetation on areas eligible for Phase II bond release;
4. Review the surface coal mining laws, regulations and policies and recommend changes to improve effectiveness of the Maryland Regulatory program; and
5. Recommend research and cost-sharing projects to promote optimum revegetation of surface coal mined lands.

During 2001, the Land Reclamation Committee met 6 times. During these meetings, the Land Reclamation Committee approved 2 reclamation plans, evaluated 138 acres of revegetation eligible for Phase II bond release, approved 99 acres as meeting the standards for release, and approved 2 reclamation plan changes.

Reclamation Results Calendar Year 2001		
Bond Release Phase	Applicable Performance Standard	Acreage Released
Phase I	<ul style="list-style-type: none"> • Area restored to Approximate original contour • Topsoil replaced • Area seeded and mulched • Completion of all reclamation work on the permit or the open acre limit is reduced 	20
Phase II	<ul style="list-style-type: none"> • Revegetation established in accordance with approved reclamation plan and standards for success of revegetation met • The lands are not contributing suspended solids to stream flow or runoff outside the permit area • Temporary drainage control structures are removed or all permanent structures are inspected and approved • Land Reclamation Committee has inspected and approved the revegetation on the area 	203
Phase III	<ul style="list-style-type: none"> • Postmining land use/productivity restored • Successful permanent vegetation established • Groundwater recharge, quality and quantity restored • Surface water quality and quantity restored • Applicable bond liability period has expired 	196

**FOR CALENDAR YEAR 2001
ABANDONED MINE LAND RECLAMATION**

The Maryland Bureau of Mines administers two programs to reclaim and/or restore land and water resources adversely affected by past coal mining practices. These two programs are: (1) Maryland-Federal Abandoned Mine Reclamation Program, implemented utilizing Federal funds available under the Federal Surface Mining Control and Reclamation Act of 1977 (U.S. Public Law 95-87) under the authority of Environment Article, Title 15, Subtitle 9 of the Annotated Code of Maryland, and (2) Maryland Mine Reclamation Program implemented utilizing funds from the Bituminous Coal Open-Pit Mining Reclamation Fund (BCOMRF) under the authority of Environment Article, Title 15, Subtitle 5; the Deep Mining Fund under the authority of Environment Article, Title 15, Subtitle 6; and the Mine Reclamation and Water Quality Restoration Loan under the authority of Environment Article, Title 15, Subtitle 7.

Maryland - Federal Abandoned Mine Reclamation Program

The Maryland Abandoned Mine Land Reclamation Plan received Federal approval on July 16, 1982, thus enabling Maryland to receive Federal funds for the reclamation of abandoned mine lands. During 2001, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided funds for the following abandoned mine land reclamation projects.

AML Projects Under Construction During 2001

1. **Warnick Road Water Supply Replacement Project**
Location: .5 mile south of Midland along Warnick Road @ Gilmore, Allegany County.
Size: 6 Acres
Nature: Extension of the Lonaconing Public Water Distribution System to provide a potable water supply to 6 residents whose water supplies had been impacted by abandoned mine drainage.
Cost: \$ 170,000.00
Fund Source: Federal/State AML Reclamation Fund
Status: 20% complete as of 12/31/01

Bond Forfeiture Reclamation

The Maryland Bureau of Mines administers the reclamation of lands affected by operations on which the permit has been revoked and the bond forfeited. The funds received from the forfeiture of bonds and the bond supplement reserve, when the bond is not sufficient, are used to reclaim the lands affected by operations on which the liability was charged on the bonds.

Forfeiture Projects Under Construction During 2001

1. **Oliver Permit # 233 Mine Forfeiture Reclamation Project**
Location: .5 miles east of Barton, Allegany County, MD
Size: 20 Acres
Nature: Reclamation of 20 acres of surface coal mine bond forfeiture land associated with the Oliver Mining Company Permit SM-84-233 Bond Forfeiture. Reclamation is being completed in conjunction with active backfilling operations on Barton Mining Company, Inc. Permit SM-96-432.
Construction Cost: \$ 152,000.00
Revegetation Cost: \$ 24,000.00
Fund Source: Bond Forfeiture and Bond Supplement Fund
Status: 10% Complete as of 12/31/01

Deep Mine Fund Reclamation

The Maryland Bureau of Mines administers the Deep Mine Fund, under the authority of Environment Article, Title 15, Subtitle 6, to reclaim deep mine related land and water problems in which there is not continuing liability or responsibility. During calendar year 2001 the Bureau completed the following projects using this fund.

Deep Mine Fund Projects Under Construction During 2001

1. **Franklin Hill Bench Mine Drainage Control Project**
Location: 1.3 miles northwest of Brophytown, Allegany County on the west side of MD State Rt. 36 on Franklin Hill.
Size: 1 Acre
Nature: Installation of a surface drainage conveyance structure to control drainage from the abandoned Franklin coal mine bench, to eliminate flooding to Brophytown, Allegany County.
Cost: \$ 6,019.93
Fund Source: Deep Mine Fund
Status: Completed October 15, 2001

FOR CALENDAR YEAR 2001
ACID MINE DRAINAGE RECLAMATION

AMD Projects Under Construction During 2001

1. **TEETS AMD PROJECT**

Location: South on Rock Lodge Road approximately 1 mile from the intersection of Mosser Road. Located on the west side of Rock Lodge Road.
Size: 1 acre.
Nature: Reconstruction of the old SAPS Cell, addition of a PVC liner in the cell, construction of a large cell and plastic liner, placement of limestone gravel into both cells, and inoculation of the system with Pyrolucite.
Cost: \$ 180,000.00
Fund Source: Appalachian Clean Streams Initiative Grant, OSM Cooperative Grant to Western MD. RC&D.
Status: Complete as of 12/31/01

2. **CHERRY CREEK DOSER PROJECT**

Location: West side of Rock Lodge Road, Garrett County, Maryland.
Size: Less than 1 acre.
Nature: Installation of a Limestone Doser on the lower section of Cherry Creek. The Doser will abate the impacts of the AMD and the natural acids of Cherry Creek on the lower section of the stream. The stream will become the major spawning stream for Brown Trout in the Deep Creek Lake drainage basin (personal communications with Ken Pavol, Regional Fisheries Biologist).
Cost: \$150,000 for construction (estimation by BOM staff)
Fund Source: All funds were supplied by the Sprenger - Lang Foundation.
Status: Complete as of 12/31/01

3. **ELKCLICK II AMD PROJECT - (STEEL SLAG REVISIONS)**

Location: North side of Mt. Zion Road, Garrett County, Maryland.
Size: 2 acres.
Nature: An additional cell was developed to facilitate the use of Steel Slag to increase the alkalinity of the discharge.
Cost: \$5,000
Fund Source: FY Appalachian Clean Streams Initiative Grant.
Status: Complete as of 12/31/01.

4. **NEFF RUN AMD, HABITAT AND FLOOD IMPROVEMENT PROJECT (WELL RETRO-FIT)**

Location: One mile east of Midland off of Dan's Mountain Road. Located on the north side of the road.
Size: 1,200 lineal feet of stream. One acre of field for the leach bed.
Nature: Develop existing monitoring wells so that water samples may be taken.
Cost: \$9,351
Fund Source: Appalachian Clean Streams Initiative Grant
Status: Complete as of 12/31/01.

5. **MILL RUN DIVERSION WELL**

Location: Mill Run at Barton, Allegany County, Maryland.
Size: 1 acre.
Nature: Grading of the site (BOM portion of the project). Construction of a Carbon Dioxide/Limestone Purge Diversion Well, construction of a limestone storage bin and a building to house the diversion wells (Conservation Fund portion of the project). This system is designed to treat about 75 gallons of AMD per minute with a pH of 3.5 and an iron concentration of 50 mg/l to pH 7.0 and iron of less than 3 mg/l.
Cost: \$150,000
Fund Source: \$5,000 from Deep Mine Funds to excavate a foundation for the housing and machine (BOM funds). \$115,000 from the Conservation Fund via a Grant from OSM. \$15,000 from EPA 104(b)(3) grant to MDE/BOM. \$15,000 from Appalachian Clean Streams Initiative Grant
Status: Complete as of 12/31/01.

6. **MILL RUN DIVERSION WELL (AMD PIPE SYSTEM)**

Location: Mill Run at Barton, Allegany County, Maryland.
Size: 1 acre.
Nature: This portion of the project involved installation of a pipe to convey the AMD from the mine mouth to the holding tank and to by-pass any run-off water around the collection tank.
Cost: \$7,875
Fund Source: Appalachian Clean Streams Initiative Grant
Status: Complete as of 12/31/01.

7. **ELKCLICK III AMD PROJECT (PLASTIC LINER)**

Location: South side of Mt. Zion Crosscut Road, Garrett County, Maryland.
Size: 2 acres.
Nature: Repair a leak in the first oxidizing pond and to stabilize a small landslide on the outslope of SAPS #2.
Cost: \$3,500

Funding Source: Appalachian Clean Streams Initiative Grant.

Status: Complete as of 12/31/01.

8. **ELK LICK III AMD PROJECT (UNPLUG AND REWORK SYSTEM)**

Location: South side of Mt. Zion Crosscut Road, Garrett County, Maryland.

Size: 2 acres.

Nature: SAPS #2 has stopped flowing. Operator reworked the system and added an additional set of collection pipes in the SAP Cell.

Cost: \$3,940

Funding Source: Appalachian Clean Streams Initiative Grant.

Status: Complete as of 12/31/01.

9. **CONY DRY CLEANERS ACID MINE DRAINAGE PROJECT**

Location: 1/4 mile north of Lonaconing, Allegany County, Maryland.

Size: 2 acres.

Nature: Construction of collection ditches, two separate AMD discharges to 2 separate Alkalinity Producing System Cells, one oxidizing/settling pond prior to discharging into an existing drainway before discharging into Georges Creek. This system treats about 30 gallons of AMD per minute with a pH 3.0 and an iron concentration of about 30 mg/l. The resultant discharge is pH 7.0 with iron concentration of less than 3.0 mg/l with excess alkalinity.

Cost: \$200,385

Fund Source: \$68,112 from Small Creeks and Estuaries Grant to Allegany County, \$37,273 from Appalachian Clean Streams Initiative Grant to BOM, \$95,000 from Watershed Cooperative Grant to the Western MD RC&D.

Status: Complets as of 12/31/01.

FOR CALENDAR YEAR 2001

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foreman and Fire Boss applicants examined and certified from 1987 through 2001 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
2001	0	0	0	0
2000	14	8	14	8
1999	17	5	17	5
1998	13	5	13	5
1997	18	5	18	5
1996	0	0	4	0
1995	0	0	14*	0
1994	24	4	24	4
1993	25	8	25	8
1992	0	0	5*	0
1991	6	0	6	0
1990	19	4	18	4
1989	0	0	25*	0
1988	15	0	11	0
1987	0	0	10*	0

*These applicants were upgraded from Fire Boss to Foreman, based on years of experience, without taking an examination.

INSPECTION AND ENFORCEMENT ACTIVITIES
1997-2001

TYPE OF ACTION	1997	1998	1999	2000	2001
Inspections	990	1058	914	819	784
Notices of Violations	11	13	7	12	6
Cessation Orders	1	1	0	3	0
Citizen Complaints	7	24	23	36	60
Bond Forfeitures	0	0	0	0	1

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

Permit No.	Year Issued	Permittee
1	1955	The George's Creek Lumber Company*
2	1955	Allegheny Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
5	1955	Car and Gottfely Construction Co.*
6	1955	M.H. Egan Coal Company*
7	1955	Moran Coal Company*
8	1955	Allegheny Engineering Company*
9	1955	Scheff Mining Company, Inc.*
10	1955	B & U Coal Company*
11	1955	Morgan Contracting Company**
12	1955	Romadale Coal Corporation*
13	1955	Cross Fuel Company*
14	1955	Highland Construction Company*
15	1955	Phoenix Big Vein Coal Company (Repermitted 336)*
16	1955	Moran Coal Company*
17	1955	T.J. Cramblett**
18	1955	Moscow-Georges Creek Coal Company*
19	1955	J.R. Thrasher Contracting & Stripping Co.*
20	1956	Moran Coal Company (Repermitted 333)*
21	1956	Scheff Mining Company, Inc.**
22	1956	Savage Coal Company*
23	1956	Moran Coal Company*
24	1956	The Georges Creek Coal & Land Co.*
25	1957	Charles T. Clise*
26	1957	Allegheny Engineering Company*
27	1957	Goodwill Fuel Company*
28	1957	D.B.&B. Coal Company*
29	1957	Queen George's Creek Coal Company**
30	1957	Mack Coal Company**
31	1957	White Crest Coal Company, Inc.**
32	1957	D.B.&B. Coal Company*
33	1957	Moran Coal Company*
34	1957	Chelsie A. Liller*
35	1957	J.E. George Trucking Company**
36	1957	D.B.&B. Coal Company*
37	1957	J.&M. Coal Company**
38	1957	Casey Construction Company**
39	1958	Moran Coal Company*
40	1958	United Energy Coal, Inc.
41	1958	Buffalo Coal Company, Inc.*
42	1958	Casey Construction Company**
43	1958	Sara-KI Coal Company, Inc.*

Permit No.	Year Issued	Permittee
44	1958	Yantus & Zubek Coal Company*
45	1958	Moran Coal Company*
46	1958	Casey Construction Company**
47	1958	Moran Coal Company*
48	1958	Moran Coal Company*
49	1958	Sara-KI Coal Company, Inc.*
50	1958	Laurel Creek Company, Inc.**
51	1958	D.B.&B. Coal Company**
52	1958	Moon and Sons*
53	1958	George L. Smith Contracting Company*
54	1958	The Georges Creek Lumber Company*
55	1958	Moran Coal Company*
56	1958	North Branch Coal Corporation*
57	1958	George Coal Company**
58	1958	Samuel Compton & Company**
59	1958	Hoover & White*
60	1958	Laurel Creek Company, Inc.**
61	1958	The Eddy Fuel Company**
62	1958	J.R. Thrasher Contracting & Stripping Co.*
63	1958	Pittsburgh Coal Company*
64	1958	Mineral Coal Company, Inc., of West Virginia*
65	1958	Laurel Creek Company, Inc.*
66	1958	The Georges Creek Lumber Company*
67	1958	Chelsie A. Liller*
68	1958	Casey Contracting Company**
69	1958	Pine Mountain Coal Company*
70	1958	Opel and Brenneman*
71	1958	The Georges Creek Lumber Company*
72	1958	P.&J. Coal Company*
73	1958	Casey Contracting Company**
74	1958	Goodwill Fuel Company*
75	1958	D.B.&B. Coal Company*
76	1960	Baughman Contracting Company, Inc.*
77	1960	P&K Coal Company*
78	1960	Morgan Contracting Company*
79	1960	Buffalo Coal Company, Inc.*
80	1960	Buffalo Coal Company, Inc.*
81	1960	Randall Robertson*
82	1960	Hoover & White**
83	1960	James E. George*
84	1960	B.M.W. Coal Company, Inc.*
85	1960	Casey Contracting Company**
86	1960	Beener Coal Company*
87	1960	Moran Coal Company, Inc.*
88	1960	D&K Coal Company*
89	1960	Brenneman Brothers*

Permit No.	Year Issued	Permittee
90	1980	Mack Coal Company*
91	1980	Clarence Rodamer*
92	1980	James E. George*
93	1981	Casey Contracting Company**
94	1981	Winner Brothers*
95	1981	Moran Coal Company, Inc.*
96	1981	Big Vein Coal Company*
97	1981	Maryland Fuel Company, Inc.*
98	1981	Yantus-Zubek Coal Company*
99	1981	J.R. Thrasher Contracting & Stripping Co.*
100	1981	Trefall Bros., Inc.*
101	1981	Mack Coal Company*
102	1981	C.A. Liller Company*
103	1981	Cross & Brumage Coal Company*
104	1981	Beener Coal Company*
105	1981	D&K Coal Company*
106	1981	Mack Coal Company*
107	1981	Yantus and Zubek*
108	1981	Potomac Mining Company*
109	1982	Casey Contracting Company*
110	1982	Wilhelm Coal Company*
111	1982	The Georges Creek Lumber Company*
112	1982	Clark Coal Company*
113	1982	Casey Contracting Company*
114	1982	Casey Contracting Company*
115	1982	Douglas Coal Company*
116	1982	Red Lion Mining Corporation**
117	1982	Ebensburg Coal and Clay Company*
118	1983	James E. George*
119	1983	Ebensburg Coal and Clay Company*
120	1983	J.R. Thrasher Contracting & Stripping Co.*
121	1983	Moran Coal Company, Inc.*
122	1983	Buffalo Coal Company, Inc.*
123	1983	J.R. Thrasher Contracting & Stripping Co.*
124	1983	Win-More Mining & Construction Co., Inc.*
125	1983	Beener Coal Company*
126	1984	W.R. Nethken and Company, Inc.*
127	1984	Mack Coal Company*
128	1984	J.R. Thrasher Contracting & Stripping Co.*
129	1984	J. Russell Cravener*
130	1984	Chesle A. Liller*
131	1984	The Georges Creek Lumber Company*
132	1984	Brenneman Brothers*
133	1985	W.R. Nethken and Company, Inc.*
134	1985	Richards and Parnell Coal Company*
135	1985	William Brashear*

Permit No.	Year Issued	Permittee
136	1985	W.R. Nethken and Company, Inc.*
137	1985	G&S Coal Company, Inc.*
138	1986	J.R. Thrasher Contracting & Stripping Co.*
139	1986	J.R. Thrasher Contracting & Stripping Co.*
140	1986	Shellmar Coal Company, Inc.*
141	1986	Randall Robertson**
142	1986	Ace Drilling Coal Company, Inc.*
143	1986	Beener Coal Company*
144	1986	Clarence Rodamer*
145	1987	Ginniman Coal Company*
146	1987	Raymond A. Wolf Mining Company*
147	1987	Menallen Coke Company*
148	1987	Russel Shafer*
149	1987	Homage Coal Co. (Emmett Dupstadt)*
150	1987	Twin States Coal Company**
151	1987	M.F. Fetherolf Coal Company, Inc.*
152	1987	Ebensburg Coal and Clay Company*
153	1988	Raymond A. Wolf Mining Co. (UPRC)*
154	1988	Michael Rostovsky*
155	1988	Ginniman & Ware Coal Company*
156	1988	Harold H. Upels Coal Company*
157	1988	T.G.&C. Coal Company, Inc.*
158	1988	Clarence Rodamer Coal Company*
159	1988	Michael Rostovsky Coal Company*
160	1988	Russel Shafer Coal Company*
161	1988	Buffalo Coal Company, Inc.*
162	1989	J.R. Thrasher Contracting & Stripping Co.***
163	1989	Buffalo Coal Company, Inc.*
164	1989	Union Coal Company*
165	1970	Win-More Mining & Construction Co., Inc.*
166	1970	Ginniman Coal Company*
167	1970	Uppermen Coal Company*
168	1970	Frank Pulford**
169	1970	Winner Bros. Coal Company, Inc.*
170	1970	Russel Shafer*
171	1970	The Chief Coal Company*
172	1970	Mary Ruth Corporation*
173	1970	Oakland Coal Company*
174	1971	Bernard C. Drees*
175	1971	Delta Mining, Inc.*
176	1971	D&K Coal Company, Inc.*
177	1971	T.G.&C. Coal Company, Inc.*
178	1971	Emmett Dupstadt*
179	1971	Somerset Excavating, Inc.*
180	1971	Ayers Coal Company*
181	1971	Delta Mining, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
182	1971	Patriot Mining Company, Inc.*
183	1971	Chief Coal Company*
184	1971	Cobra Mining, Inc.
185	1971	Bessemer Iron & Coal Company*
188	1971	Coal Lick Coal Company*
187	1971	Phillips Big Vein Coal Company*
188	1971	Ace Drilling Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc.*
191	1971	Keystone Coal and Development Company (Liability Assumed by Garrett County Roads Department)
192	1971	Ace Drilling Company, Inc.*
193	1972	Wilhelm Coal, Inc.*
194	1972	M.F. Fetteroff Coal Company, Inc.***
195	1972	Buffalo Coal Company, Inc.*
196	1972	Bessemer Iron & Coal Company*
197	1972	Grafton Coal Company*
198	1972	Jet Fuel Coal Company*
199	1972	Bessemer Iron & Coal Company*
200	1972	Chief Coal Company*
201	1972	Brashear Coal Company*
202	1972	Winner Bros. Coal Company, Inc.*
203	1972	Mary Ruth Corporation*
204	1972	Grafton Coal Company*
205	1972	Chief Coal Company*
206	1972	Upperman Coal Company*
207	1972	United Energy Coal, Inc.
208	1973	Sanner Bros. Coal Company*
209	1973	Delta Mining, Inc.*
210	1973	Markat, Inc.*
211	1973	Oakland Coal Company*
212	1973	Bessemer Iron & Coal Company*
213	1973	Clise Coal Company
214	1973	Inter-State Lumber Company*
215	1973	Buffalo Coal Company, Inc.*
218	1973	Brashear Coal Company***
217	1973	Bernard Drees Coal Company*
218	1973	Buffalo Coal Company, Inc.*
219	1973	G&S Coal Company, Inc.*
220	1974	Evans Coal Company*
221	1974	Bridgeview Coal Company*
222	1974	John Duckworth Coal Company*
223	1974	Edward Mike†
224	1974	Delta Mining, Inc.*
225	1974	Northwest Coal Company, Inc.*
226	1974	Thrasher Coal Company**

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
227	1974	Winner Bros. Coal Company, Inc.*
228	1974	Bittinger Coal Company*
229	1974	Charles M. Filsinger*
230	1974	G&H Coal Company, Inc.*
231	1974	Hi-Note, Inc.*
232	1974	Buffalo Coal Company, Inc.*
233	1974	Oliver Mining Company**
234	1974	Clise Coal Company*
235	1974	Markat, Inc.*
236	1974	Delta Mining, Inc.*
237	1974	Bridgeview Coal Company*
238	1974	Burnham Coal Company, Inc.*
239	1974	Highland Mining*
240	1974	Buffalo Coal Company, Inc.*
241	1975	Buffalo Coal Company, Inc.*
242	1975	Hopwood Strip Mine, Inc.**
243	1975	Ponderosa Coal Company, Inc.*
244	1975	Markat, Inc.*
245	1975	Phillips Coal, Inc.*
246	1975	Lambert Coal Company*
247	1975	United Energy Coal, Inc.
248	1975	Buffalo Coal Company, Inc.*
249	1975	Cobra Fuels*
250	1975	Laoc Coal Company*
251	1975	Tower Resources, Inc.*
252	1975	Phillips Coal, Inc.*
253	1975	Pine Mt. Coal Company*
254	1975	T.G.&C. Coal Company*
255	1975	Allegheny Mining Company*
256	1975	Bridgeview Coal Company*
257	1975	A&R Coal Company*
258	1975	Clinton Coal Company**
259	1975	Tower Resources, Inc.*
260	1975	Yough Tree Farm*
261	1975	Russel Shafer***
262	1975	Northwest Coal Company**
263	1975	Allegheny Mining Corporation*
264	1975	Brashear Coal Company
265	1975	Bittinger Coal Company*
266	1975	Delta Mining, Inc.*
267	1975	Bittinger Coal Company*
268	1975	Clyde Marsh Coal Company*
269	1975	Hungry Hollow Coal Company*
270	1975	Clise Coal Company*
271	1975	A&R Coal Company*
272	1975	Action Mining, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
273	1975	Win-More Mining & Construction
274	1975	Evans Coal Company*
275	1975	Buffalo Coal Company, Inc.*
276	1975	Buffalo Coal Company, Inc.*
277	1975	Allegheny Mining Corporation
278	1978	Inter-State Lumber Company*
279	1978	Buffalo Coal Company, Inc.*
280	1978	Delta Mining, Inc.*
281	1978	Rondell Company*
282	1978	Phillips Coal, Inc.*
283	1978	G&H Coal Company, Inc.*
284	1978	Tower Resources, Inc.*
285	1978	Clinton Coal Company**
286	1978	Winner Bros. Coal Company, Inc.*
287	1978	T.L. Moran, Inc.*
288	1978	Delta Mining, Inc.*
289	1978	Pine Mt. Coal Company*
290	1978	Delta Mining, Inc.*
291	1978	George Nolan**
292	1978	Alexander Coal Co.*
293	1978	Pine Mt. Coal Company*
294	1978	Arlen Miller***
295	1978	Action Mining, Inc.*
296	1978	Bessemer Iron & Coal Company**
297	1977	Oakland Coal Company
298	1977	Bittinger Coal Company*
299	1977	Inter-State Lumber, Inc.*
300	1977	Garbart Coal Company*
301	1977	Pine Mt. Coal Company*
302	1977	L.C. Coal Company, Inc.*
303	1977	Ginniman Brothers Coal Company**
304	1977	Buffalo Coal Company, Inc.*
305	1977	Wood Products, Inc.*
306	1977	Bridgeview Coal Company*
307	1977	T.L. Moran, Inc.*
308	1977	Best Coal Stripping, Inc.**
309	1977	Delta Mining, Inc.*
310	1977	Oakland Coal Company*
311	1977	Primrose Coal Company*
312	1977	R.A.K. Coal Company, Inc.**
313	1977	G&S Coal Company*
314	1977	Wilhelm Coal, Inc.**
315	1977	Clise Coal Company
316	1977	Brawal Mining, Inc.*
317	1977	John R. Livingston**
318	1977	Winner Bros. Coal Company, Inc.

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
319	1977	John Duckworth Coal Company*
320	1977	Kelley Enterprises*
321	1978	Delta Mining, Inc.*
322	1978	Bridgeview Coal Company*
323	1978	Ayers Coal Company*
324	1978	John Duckworth Coal Company*
325	1978	G&S Coal Company, Inc.
326	1978	Buffalo Coal Company, Inc.
327	1978	Buffalo Coal Company, Inc.*
328	1978	Buffalo Coal Company, Inc.
329	1978	Winner Bros. Coal Company, Inc.*
330	1978	Inter-State Lumber Company*
331	1978	R.A.K. Coal Company***
332	1978	Seneca Mining Company*
333	1978	Westvaco Corporation*
334	1978	Buffalo Coal Company, Inc.*
335	1978	Inter-State Lumber Company**
336	1978	Inter-State Lumber Company*
337	1978	Kirby Energy, Inc.*
338	1978	Barton Mining Company, Inc.
339	1978	Wilhelm Coal, Inc.*
340	1978	Fetterolf Mining, Inc.*
341	1979	Eastern Mining Systems, Inc.**
342	1979	Primrose Coal Company*
343	1979	L.C. Coal Company*
344	1979	Bridgeview Coal Company*
345	1979	Delta Mining, Inc.**
346	1979	Inter-State Lumber Company*
347	1979	Kelley Enterprises*
348	1979	Schwinnbart & Green, Joint Venture*
349	1979	Wilhelm Coal, Inc.**
350	1980	Bridgeview Coal Company*
351	1980	Winner Bros. Coal Company, Inc.*
352	1980	John Duckworth Coal Company*
353	1980	Winner Bros. Coal Company, Inc.*
354	1980	Brawal Mining, Inc.*
355	1980	Hi-Note, Inc.*
356	1980	G&S Coal Company, Inc.***
357	1980	Richard Duckworth Coal Company*
358	1980	Bridgeview Coal Company*
359	1980	Buffalo Coal Company, Inc.
360	1980	Buffalo Coal Company, Inc.*
361	1980	Pamela Mines, Inc.**
362	1980	Alpha Mining, Inc.*
363	1980	Pamela Mines, Inc.**

Permit No.	Year Issued	Permittee	Permit No.	Year Issued	Permittee
364	1980	John Duckworth Coal Company*	410	1987	J. Walter Wassell
365	1980	G&S Coal Company, Inc.	411	1987	Jenkins Development Company
366	1980	Buffalo Coal Company, Inc.*	412	1987	John Duckworth Coal Company***
367	1980	Buffalo Coal Company, Inc.	413	1988	Buffalo Coal Company, Inc.*
368	1980	United Energy Coal, Inc.	414	1989	United Energy Coal, Inc.
369	1980	Blittinger Coal Company*	415	1989	Pine Mt. Coal Company*
370	1982	Keystone Mt. Development Company*	416	1989	Action Mining, Inc.*
371	1982	Eagle Mining, Inc.*	417	1989	Tri Star Mining, Inc.*
372	1982	John Duckworth Coal Company	418	1991	Tri Star Mining, Inc.*
373	1982	Kirby Energy, Inc.	419	1991	Tri Star Mining, Inc.
374	1982	Winner Bros. Coal Company, Inc.	420	1991	Pine Mt. Coal Company
375	1982	Win-More Mining & Construction Company	421	1992	G&S Coal Company, Inc.
376	1982	Jones Coal, Inc.**	422	1992	Buffalo Coal Company, Inc.*
377	1982	Allegheny Mining Corporation*	423	1992	United Energy Coal, Inc.
378	1982	Delta Mining, Inc.**	424	1995	Pine Mt. Coal Company
379	1982	Masteller Coal Company*	425	1995	Tri Star Mining, Inc.
380	1982	Fairview Coal Company (Repermitted 399)*	426	1998	Tri Star Mining, Inc.*
381	1982	Richard Duckworth Coal Company*	427	1998	Barton Mining Company, Inc.
382	1983	Pine Mt. Coal Company*	428	1997	Mettiki Coal, LLC
383	1983	Allegheny Mining Corporation*	429	1997	Tri Star Mining, Inc.
384	1983	Evans Coal Company*	430	1998	G&S Coal Company, Inc.
385	1983	Winner Bros. Coal Company, Inc.	431	1998	Patriot Mining Company, Inc.
386	1983	Jones Mining, Inc.*	432	1999	Barton Mining Company, Inc.
387	1983	Hilltop Construction Company**	433	1999	Win-More Mining & Construction
388	1983	Fetteroff Mining, Inc.*	434	1999	Tri Star Mining, Inc.
389	1983	Winner Bros. Coal Company, Inc.*	435	2000	G&S Coal Company, Inc.
390	1983	C.J. Merlo, Inc.*	436	2000	Cobra Mining, Inc.
391	1983	Oak Springs Coal Company*	437	2001	Cobra Mining, Inc.
392	1984	Westvaco Resources, Inc.*	438	2001	Mountaineer Mining Corp.
393	1984	Patriot Mining Company, Inc.	439	2001	United Energy Coal, Inc.
394	1984	Action Mining, Inc.*	440	2001	G&S Coal Company, Inc.
395	1984	Stan-Jan Excavating, Inc.*			
396	1984	Allegheny Mining Corporation*	DEEP MINES		
397	1985	Michael R. McGowan*	DM 101	1977	Mettiki Coal, LLC
398	1985	Brashear Coal Company	DM 102	1977	Masteller Coal Company*
399	1985	Fairview Coal Company	DM 103	1977	Mt. Top Coal Company*
400	1985	Delta Mining, Inc.*	DM 104	1977	Mettiki Coal Corporation
401	1985	Buffalo Coal Company, Inc.***	DM 105	1977	Mettiki Coal Corporation
402	1985	Pine Mt. Coal Company*	DM 106	1978	A&J Coal Corporation**
403	1985	T.D. Mining Company**	DM 107	1982	Masteller Coal Company*
404	1986	Ciase Coal Company	DM 108	1989	Anker West Virginia Mining Co., Inc.
405	1986	Jones Coal, Inc.**	DM 109	1991	Patriot Mining Company, Inc.
406	1988	Patriot Mining Company, Inc.*	DM 110	1992	Masteller Coal Company
407	1986	United Energy Coal, Inc.	DM 111	2000	George Creek, Inc.
408	1986	Tri Star Mining, Inc.*			
409	1986	Buffalo Coal Company, Inc.*			

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
TIPPLES AND GOB PILES		
SC-83-101	1983	Buffalo Coal Company*
SC-83-102	1983	Buffalo Coal Company*
SC-83-103	1983	Buffalo Coal Company*
SC-83-104	1983	Buffalo Coal Company
SC-83-105	1983	Buffalo Coal Company*
SC-83-106		Permit Not Issued
SC-83-107	1983	Delta Coal Sales, Inc.**
SC-83-108	1984	Delta Coal Sales, Inc.*
SC-83-109		Permit Not Issued
SC-83-110	1983	United Energy Coal, Inc.
SC-83-111	1983	Westvaco Corporation*
SC-83-112	1983	United Energy Coal, Inc.*
SC-83-113		Permit Not Issued
SC-83-114	1984	Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116	1987	John Duckworth Coal Company
SC-87-117	1987	Tri Star Mining, Inc.
SC-87-118	1987	Patriot Mining Company, Inc.

* Operation Completed and Bond Released

** Forfeiture of Bond

*** Not Activated