

# Ninetieth Annual Report of the Maryland Bureau of Mines – 2011 –

Prepared by:

Land Management Administration  
Mining Program

Prepared for:

Martin O'Malley, Governor  
State of Maryland

Anthony G. Brown, Lt. Governor  
State of Maryland

Thomas V. Mike Miller, Jr., Senate President  
Maryland General Assembly

Michael E. Busch, House Speaker  
Maryland General Assembly

MARYLAND DEPARTMENT OF THE ENVIRONMENT  
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Martin O'Malley, Governor | Anthony G. Brown, Lt. Governor | Shari T. Wilson, Secretary



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## **EXECUTIVE SUMMARY**

During calendar year 2011, Maryland operators produced 3,011,762.12 tons of coal. Surface coal mining production was 1,289,999.19 tons in Allegany County and 904,150.17 in Garrett County. Deep coal mining production was 817,612.76 tons, all in Garrett County.

Ninety-eight coal mine permit actions were received and ninety-nine permitting actions were issued, including five permit increments, and seven permit amendments, totaling one hundred sixty-two acres. Included in the permitting actions were thirty-two operator's license renewals. Other permit actions included: modifications, transfers and prospecting permits.

Three hundred sixty-two acres were affected, 478 acres backfilled, and 453 acres planted. Bond was totally released on 107 acres.

Seven hundred ninety-three inspections were performed on coal mining operations. Nine Notices of Violation were issued. Twenty-one Citizen Complaints were received and investigated and there were three cessation orders issued. There were zero Bond Forfeitures during this calendar year.

The Land Reclamation Committee met nine times and approved seven reclamation plans. The Committee also evaluated the revegetation on 572 acres eligible for Phase II bond release and approved 166 acres as meeting the standards for release. There was one reclamation plan change during the year.

The Abandoned Mine Lands Division completed sixteen projects during Calendar Year 2011. Projects, totaling \$1,842,316.66 in construction costs, were completed using the various fund sources.

## PERSONNEL FOR CALENDAR YEAR 2011

### **MINING PROGRAM**

C. Edmon Larrimore. . . . . Program Manager, Mining Program  
Melody Thrower . . . . . Administrative Specialist

### **BUREAU OF MINES**

John E. Carey . . . . . Director, Bureau of Mines  
Blake E. Pritts. . . . . Office Secretary III

#### Permitting and Regulatory Section

Alan V. Hooker– Section Chief . . . . . Geologist Supervisor  
Jeffery Snyder . . . . . Geologist Lead  
Mark Hajas . . . . . Geologist III  
Michelle Arrington . . . . . Envir. Compliance Specialist III

#### Mining Inspection and Enforcement Section

Thomas P. Murray. – Section Chief . . . . . Envir. Compliance Specialist IV  
William Murphy. . . . . Envir. Compliance Specialist III  
Ray Karlstrand . . . . . Envir. Compliance Specialist III  
Ralph Mongold . . . . . Envir. Compliance Specialist III

#### Water Quality Section

Mary Lynn Pegg – Section Chief . . . . . Geologist V  
Julie O'Connor . . . . . Natural Resources Planner IV

### **ABANDONED MINE LANDS**

Michael P. Garner – Division Chief. . . . . Regulatory & Compliance Engineer V

#### Abandoned Mine Lands Section

Bradley Nee. . . . . Regulatory & Compliance Engineer IV  
Mark Carney. . . . . Regulatory & Compliance Engineer III  
Timothy Miller . . . . . Regulatory & Compliance Engineer III

#### Acid Mine Drainage Section

Constance A. Lyons – Section Chief . . . . . Natural Resources Planner V  
Joseph E. Mills . . . . . Natural Resources Planner IV  
Randall Matthews . . . . . Conservation Associate V  
Scot Nicol . . . . . Conservation Associate IV  
Jaron Hawkins . . . . . Natural Resources Planner II

#### Program Support Staff

Assistant Attorney General MDE  
Jeff Buser . . . . . Administrator II  
Lorri Broadwater. . . . . Administrative Officer II

**SUMMARY OF STATISTICS FOR THE CALENDAR YEAR 2011  
REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland during 2011 totaled 3,011,762.12 tons. Production in 2011 represents a increase of 111,734.60 tons from the 2010 production of 2,900,027.52 tons.

**SUMMARY OF 2011  
STATISTICS<sup>1</sup>**

**COAL PRODUCTION**

<b>Mining Method</b>	<b>Allegany County</b>	<b>Garrett County</b>	<b>Total</b>
<b>Strip</b>	1,289,999.19	904,150.17	2,194,149.36
<b>Deep</b>	.00	817,612.76	817,612.76
<b>Auger</b>	.00	.00	.00
<b>TOTALS</b>	1,289,999.19	1,721,762.93	3,011,762.12

**EMPLOYEES<sup>2</sup>**

<b>Type of Mine</b>	<b>Allegany County</b>	<b>Garrett County</b>	<b>Total</b>
<b>Deep</b>	0	79	79
<b>Strip</b>	153	141	294
<b>TOTALS</b>	153	220	373

<sup>1</sup>Obtained from reports submitted by Maryland mining operators.

<sup>2</sup>These figures do not include office, supervisor personnel, or independent truck haulers.

**FOR THE CALENDAR YEAR 2011  
TONNAGE BY COAL SEAMS**

Allegheny County

Waynesburg .....	18,558.16
Sewickley (Tyson) .....	12,445.02
Redstone .....	200,550.66
Pittsburgh .....	850,455.07
Morantown .....	34,759.10
L. Pittsburgh .....	14,885.10
Franklin .....	110,959.73
Harlem .....	0
Bakerstown .....	47,386.35
Freeport .....	0
Kittanning .....	0
Federal Hill .....	0
Barton .....	0
<b>TOTAL .....</b>	<b>1,289,999.19</b>

Garrett County

Sewickley .....	53,639.86
Pittsburgh .....	83,908.19
Morantown .....	18,054.43
L. Pittsburgh .....	19,593.05
Franklin .....	149,082.66
Barton .....	667,463.57
Elk Lick .....	0
Harlem .....	11,853.29
Bakerstown .....	301,169.08
Upper Freeport .....	49,426.00
Freeport .....	283,151.97
Kittanning .....	0
Redstone .....	84,420.83
Evans .....	0
<b>TOTAL .....</b>	<b>1,721,762.93</b>

**TONNAGE BY BASIN**

Lower Youghiogheny .....	0
Upper Youghiogheny .....	0
Casselman .....	49,426.00
Casselman (Cherry Creek) .....	0
Potomac .....	641,536.83
George's Creek .....	2,320,799.29
<b>TOTAL .....</b>	<b>3,011,762.12</b>

**CALENDAR YEAR 2011  
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 mining or reclamation activity occurred.

**ALLEGANY COUNTY**

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)			Auger	Acres Affected	Acres Backfilled	Acres Planted
			Deep	Strip	Auger				
Beechwood Coal, LLC	359	Pittsburgh		18,814.10			1.0	0.0	0.0
		Morantown		0.00			--	--	--
		Redstone		5,244.42			--	--	--
	403	Pittsburgh		270.68		16.0	19.0	15.0	
	457	Pittsburgh		10,578.13		37.0	0.0	0.0	
		Redstone		13,252.80		--	--	--	
		Morantown		1,711.66		--	--	--	
C & S Coal, LLC	456	Pittsburgh		5,440.91		1.0	1.0	0.0	
Clise Coal Company, Inc.	404	Waynesburg		9,030.36		14.0	0.0	4.0	
	447	Pittsburgh		12,292.47		7.0	8.0	8.0	
	449	Pittsburgh		0.00		0.0	3.0	3.0	
Cobra Mining, Inc.	437	Pittsburgh		14,497.93		0.0	5.0	0.0	
		Morantown		4,631.82		--	--	--	
		Redstone		437.34		--	--	--	
Fairview Coal Co., Inc.	399	Pittsburgh		22,962.23		0.0	5.0	5.0	
G & S Coal Company, Inc.	440	Pittsburgh		510.10		0.0	0.0	11.0	
		L.Pittsburgh		8,122.20		--	--	--	
		Morantown		632.30		--	--	--	
Jenkins	411	Waynesburg		9,527.80		0.0	10.0	10.0	
		Sewickley		0.00		--	--	--	
Mountaineer Mining Corp.	451	Pittsburgh		7,563.77		0.0	0.0	0.0	
		Morantown		4,918.87		--	--	--	
		Redstone		69,646.43		--	--	--	
		Sewickley		7,764.39		--	--	--	
Ritchie Trucking & Excavating, Inc.	40	Pittsburgh		34,936.20		4.0	0.0	0.0	
		Redstone		54,012.59		--	--	--	
		Sewickley		3,589.47		--	--	--	
		Pittsburgh		12,195.28		0.0	0.0	0.0	
		Redstone		21,662.49		--	--	--	
		Sewickley		354.85		--	--	--	

Tri-Star Mining, Inc.	264	Franklin	9,494.72	0.0	0.0	0.0	0.0
	419	Pittsburgh	33,507.34	0.0	10.0	10.0	10.0
		L.Pittsburgh	6,762.90	--	--	--	--
		Morantown	13,251.02	--	--	--	--
		Redstone	18,905.63	--	--	--	--
		Sewickley	736.31	--	--	--	--
	436	Franklin	101,465.01	103.0	91.0	91.0	91.0
Vindex Energy Corp.	393	Pittsburgh	279,332.36	38.0	39.0	39.0	39.0
	427	Pittsburgh	0.00	0.0	23.0	23.0	23.0
	432	Pittsburgh	375,879.68	14.0	18.0	18.0	18.0
	439	Bakerstown	47,386.35	44.0	0.0	0.0	6.0
Walker Bros. Mining, Inc.	453	Pittsburgh	21,673.89	1.0	4.0	4.0	2.0
		Morantown	9,613.43	--	--	--	--
		Redstone	17,388.96	--	--	--	--
<b>TOTAL ALLEGANY COUNTY</b>			<b>1,289,999.19</b>	<b>280.0</b>	<b>236.0</b>	<b>245.0</b>	<b>245.0</b>

**GARRETT COUNTY**

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)			Acres Backfilled	Acres Planted
			Strip	Auger	Affected		
ARJ Construction	DM111	Barton	634,536.38	0.0	0.0	0.0	0.0
Backbone Mountain, LLC	DM112	Bakerstown	128,248.76	0.0	0.0	0.0	0.0
Beechwood Coal, LLC	403	Pittsburgh	72,759.09	(See Allegany County)	--	--	--
		Morantown	16,610.56	--	--	--	--
		Redstone	78,650.82	--	--	--	--
G & S Coal Company, Inc.	421	Franklin	26,207.10	10.0	6.0	6.0	6.0
	435	Bakerstown	14,850.94	11.0	23.0	23.0	0.0
		Barton	3,495.00	--	--	--	--
		Harlem	5,600.64	--	--	--	--
	441	Bakerstown	7,226.65	2.0	6.0	6.0	0.0
	454	Barton	15,660.39	7.0	3.0	3.0	0.0
		Harlem	2,938.50	--	--	--	--
	455	Bakerstown	17,905.77	--	--	--	--
		Harlem	3,314.15	6.0	0.0	0.0	0.0
LAOC Corporation	450	Bakerstown	29,209.92	9.0	10.0	10.0	8.0
	458	Bakerstown	4,406.39	0.0	0.0	0.0	0.0
MER, LLC	DM113	Upper Freeport	49,426.00	7.0	0.0	0.0	0.0
Mettiki Coal Corporation	DM101	Upper Freeport	0.00	2.0	263.0	263.0	0.0
	428	Bakerstown	99,320.65	11.0	98.0	98.0	98.0



Pine Mountain Coal Company	424	Pittsburgh Morantown Redstone	4,645.61 1,443.87 856.86	1.0	3.0	0.0
Savage Mountain Minerals, Inc.	445	L. Pittsburgh	2,732.72	0.0	0.0	0.0
	446	Sewickley	51,196.88	3.0	0.0	0.0
	448	Barton	13,771.80	1.0	7.0	10.0
Tri-Star Mining, Inc.	419	Pittsburgh L. Pittsburgh Redstone Morantown Barton Sewickley Franklin	6,503.49 16,860.33 4,913.15 0.00 0.00 2,442.98 122,875.56	(See -- -- -- -- -- 12.0	Allegany -- -- -- -- -- 0.0	County) -- -- -- -- -- -- 0.0
Vindex Energy Corporation	443	Freeport	237,823.19	0.0	86.0	86.0
WPO, Inc.	452	Freeport	39,927.16	9.0	0.0	0.0
Wolf Run Mining, Inc.	DM109	Freeport	5,401.62	0.0	0.0	0.0
<b>TOTAL GARRETT COUNTY</b>			<b>904,150.17</b>	<b>91.0</b>	<b>505.0</b>	<b>208.0</b>
<b>TOTAL BOTH COUNTIES</b>			<b>2,194,149.36</b>	<b>371.0</b>	<b>741.00</b>	<b>453.0</b>

**FOR CALENDAR YEAR 2011**  
**SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2011**  
**(By Geological Basin)**

ACRES THIS YEAR

	Permitted	Affected	Backfilled	Planted	Bond Released*
<b>Allegany County:</b>					
Georges Creek Basin	209.00	281.00	229.00	235.00	81.00
<b>Garrett County:</b>					
Georges Creek Basin	12.00	16.00	17.00	20.00	0.00
Potomac River Basin	402.00	65.00	232.00	198.00	26.00
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
<b>TOTAL GARRETT COUNTY</b>	<b>414.00</b>	<b>81.00</b>	<b>249.00</b>	<b>218.00</b>	<b>26.00</b>
<b>TOTAL BOTH COUNTIES</b>	<b>623.00</b>	<b>362.00</b>	<b>478.00</b>	<b>453.00</b>	<b>107.00</b>

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2011

<b>Allegany County:</b>					
Georges Creek Basin	8,561.30	7,328.50	6,049.47	6,118.30	5,752.00
<b>Garrett County:</b>					
Georges Creek Basin	3,197.00	2,865.95	2,581.80	2,833.81	2,952.60
Potomac River Basin	5,986.00	4,928.70	4,415.00	4,544.40	324
Casselman River Basin**	1,438.00	1,156.00	1,260.50	1,142.20	1,265.80
Cherry Creek Basin**	667	671.5	578.9	545.8	659.95
Upper Yough Basin	216	157.35	215.35	189.3	261.5
Lower Yough Basin	1,335.00	914	1,135.06	1078.16	855.4
<b>TOTAL GARRETT COUNTY</b>	<b>12,839.00</b>	<b>10,693.50</b>	<b>10,186.61</b>	<b>10,333.67</b>	<b>6,292.25</b>
<b>TOTAL BOTH COUNTIES</b>	<b>21,400.30</b>	<b>18,022.00</b>	<b>16,236.08</b>	<b>16,451.97</b>	<b>12,044.25</b>

\*\*Total Casselman Geological Basin.

\*Total Bond Release by the Bureau.

**PERMITTING ACTIVITY**  
**CALENDAR YEAR 2011**

Type of Application	Surface Mines			Underground Mines			Other Facilities			Totals		
	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres
Original Permits	1	2	384	0	0	0	0	0	0	2	3	454
Permit Increments	0	0	0	2	2	0	0	0	0	7	5	12
Modifications With Acreage	4	3	8	2	0	0	0	0	0	11	7	162
Modifications Without Acreage	9	13		1	2		0	1		29	30	
Transfers	0	1		0	0		0	0		2	2	
Renewals	2	5		0	0		0	0		10	12	
Prospecting Permits	0	0		0	0		0	0		0	0	
Prospecting Letter of Intent	3	2		2	0		0	0		9	8	
Operators License Original	2	0		0	0		0	0		2	0	
Operators License Renewals	20	0		6	0		0	0		26	32	
<b>Totals</b>	<b>41</b>	<b>26</b>	<b>392</b>	<b>13</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>98</b>	<b>99</b>	<b>628</b>

## FOR CALENDAR YEAR 2011

### MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foreman and Fire Boss applicants examined and certified from 1997 through 2011 is identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
2011	16	8	15	7
2010	11	19	11	19
2009	5*	0	5*	0
2008	0	8	0	9(1)*
2007	1	12	1	12
2006	6	5	11 (5)*	5
2005	0	0	0	0
2004	1	4	3	4
2003	0	0	0	0
2002	12	2	12	2
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

(#)\* Certifications issued in accordance with the reciprocity agreement between West Virginia and Maryland.

### INSPECTION AND ENFORCEMENT ACTIVITIES 2007-2011

TYPE OF ACTION	2007	2008	2009	2010	2011
Inspections	972	970	773	858	793
Notices of Violations	8	9	79	13	9
Cessation Orders	2	0	0	8	3
Citizen Complaints	33	14	18	37	21
Bond Forfeitures	12	0	0	0	0

**FOR THE CALENDAR YEAR 2011  
LAND RECLAMATION COMMITTEE**

**Members:**

The following members served on the Land Reclamation Committee during 2011:

**DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:**

Ed Larrimore, Chairman, Land Management Administration  
John E. Carey, Bureau of Mines

**DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:**

Jim Mullan, Wildlife Division  
Robert Webster, Forestry Division  
Alan Klotz, Freshwater Fisheries

**CITIZEN REPRESENTATIVES**

Cosette 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:**

Jim Ashby  
Tim Schwinabart

**FOR THE CALENDAR YEAR 2011**  
**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 2011, the Land Reclamation Committee conducted site visits on 5 days. These visits included field reviews of 6 proposed mining sites and 40 revegetation sites to evaluate the success of the revegetation.

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 mine lands.

During 2011, the Land Reclamation Committee met nine times. During these meetings, the Land Reclamation Committee approved seven reclamation plans, evaluated 572 acres of revegetation eligible for Phase II bond release and approved 166 acres as meeting the standards for release. There was one reclamation plan changes during the year.

<b>Reclamation Results</b>		
<b>Calendar Year 2011</b>		
<b>Bond Release Phase</b>	<b>Applicable Performance Standard</b>	<b>Acreage Released</b>
Phase I	<ul style="list-style-type: none"> <li>• Area restored to Approximate original contour</li> <li>• Topsoil replaced</li> <li>• Area seeded and mulched</li> <li>• Completion of all reclamation work on the permit or the open acre limit is reduced</li> </ul>	62
Phase II	<ul style="list-style-type: none"> <li>• Revegetation established in accordance with approved reclamation plan and standards for success of revegetation met</li> <li>• The lands are not contributing suspended solids to stream flow or runoff outside the permit area</li> <li>• Temporary drainage control structures are removed or all permanent structures are inspected and approved</li> <li>• Land Reclamation Committee has inspected and approved the revegetation on the area</li> </ul>	182
Phase III	<ul style="list-style-type: none"> <li>• Post-mining land use/productivity restored</li> <li>• Successful permanent vegetation established</li> <li>• Groundwater recharge, quality and quantity restored</li> <li>• Surface water quality and quantity restored</li> <li>• Applicable bond liability period has expired</li> </ul>	53

## 2011 Reclamation Award

Permit SM-97-428 Mettiki Coal, LLC.

Mettiki Coal, LLC began mining on this 180 acre permit located in southwest Garrett County near Kempton in 2001. The site had been previously strip mined and contained unreclaimed highwalls and mining pits, several pits were filled with water. During the mining process Mettiki reclaimed nearly 8000 feet of dangerous highwall and about 40 acres of previously disturbed mining area. Prior mining at the site caused unstable slopes and a lack of topsoil making reclamation of the site very difficult. The sites grass fields are home to abundant wildlife.

### Past Reclamation Award Winners\*

<u>Year</u>	<u>Name of Company</u>	<u>Permit</u>
1984	Bridgeview Coal Company	356
1985	Brashear Coal Company	264
1986	Buffalo Coal Company	366
1987	Delta Mining, Inc.	345
1988	Beener Coal Company	143
1989	Brashear Coal Company	264
1990	Action Mining Company	394
1991	Patriot Mining Company	406
1992	S & G Coal Company	348
1993	Buffalo Coal Company	215
1994	G & S Coal Company	365
1995	John Duckworth Coal	372
1996	Buffalo Coal Company	409
1997	Tri Star Mining Inc.	418
1998	G & S Coal Company	325
1999	Buffalo Coal Company	409
2000	Winner Bros. Coal Company	286
2001	Clise Coal Company	315
2002	Win-More Mining	273
2003	Pine Mountain Coal Company	420
2004	G & S Coal Company	365
2005	Mountaineer Mining Corp.	438
2006	Winner Brothers Coal Company	385
2007	Tri Star Mining Inc	429
2008	Cobra Mining, Inc.	184
2009	Vindex Energy Corporation	338
2010	Clise Coal Company Inc.	213

\*Each year the Land Reclamation Committee selects a coal mining operation to receive the reclamation award presented by the Maryland Coal Association. This award is given to an operator that has achieved outstanding reclamation on a permit site.



**FOR CALENDAR YEAR 2011**  
**ABANDONED MINE LAND DIVISION**

During the 2011, the MDE, Mining Program, Abandoned Mine Land Division (AMLD) completed 16 projects for a total cost of \$1,842,316.66. The AMLD uses funds made available by Title IV of the federal Surface Mining Control and Reclamation Act of 1977 (SMCRA), The Environmental Protection Agency, the Maryland Deep Mine Fund and various other State and federal grants to eliminate health and safety concerns while restoring land and water resources adversely impacted by “pre-SMCRA” (aka abandoned) coal mines. The authority to perform abandoned mine reclamation is derived from Environment Article, Title 15, Subtitle 11 of the Annotated Code of Maryland. The AMLD maintains and operates 40 acid mine drainage treatment systems located throughout Maryland’s coal region. These systems have improved approximately 82 miles of streams many of which have returned to productive fisheries. The AMLD also fulfills the reclamation requirements of “post-SMCRA” coal-mines in which the mining permit issued by the Maryland Bureau of Mines has been revoked for non-compliance of state mining laws and the reclamation bond forfeited. This is accomplished using funds acquired through the forfeiture of bonds and the Bond Supplemental Reserve under the authority of Environment Article, Title 15, Subtitle 5.

The Maryland Abandoned Mine Land Reclamation Division received funds from the various sources to accomplish the following projects for Calendar Year 2011.

**AARON RUN AMD TREATMENT AND STREAM STABILIZATION PROJECT**

*Location:* 3 Miles Northwest of Westernport, Garrett County  
*Nature:* Chemical and physical restoration of Aaron Run.  
*Completion Date:* May 5, 2011  
*Cost:* \$546,869.83  
*Fund Source:* MD-Federal AML Fund, EPA, Watershed Cooperative Funds, Et al.

**KINGSLAND MINE BLOWOUT RISK ASSESSMENT STUDY**

*Location:* Just west of Lonaconing, Allegany County.  
*Nature:* Investigate the probability of a mine blowout at the Kingsland Mine, determine the potential impacts, and recommend remediation measures  
*Completion Date:* April 1, 2011  
*Cost:* \$22,602.50  
*Fund Source:* MD-Federal AML Fund

**OWENS NORTH AND SOUTH AMD TREATMENT SYSTEM MODIFICATIONS**

*Location:* 2 Miles Northwest of Westernport, Garrett County  
*Nature:* Modifications to 2 AMD treatment systems to improve effectiveness and efficiency.  
*Completion Date:* April 1, 2011  
*Cost:* \$33,000  
*Fund Source:* EPA 319

**ZILMAN GOB PILE AML ENHANCEMENT PROJECT**

*Location:* 2 miles north of Frostburg near Zilman, Allegany County.  
*Nature:* Excavation of an abandoned gob pile and removal to an approved permitted mining facility for reprocessing. Regrading, topsoiling and stabilizing of the final grade.  
*Completion Date:* April 12, 2011  
*Cost:* \$2,000  
*Fund Source:* Maryland Deep Mine Fund

**HAMPSHIRE HILL COAL WASTE STABILIZATION PROJECT**

*Location:* 1 mile north of Westernport, Allegany County.  
*Nature:* Excavation and disposal of 10,000 CY of gob, stabilization of a stream channel, elimination of highwall, and AMD treatment system.  
*Completion Date:* August 11, 2011  
*Cost:* \$612,900.87  
*Fund Source:* MD-Federal AML Fund

**CHARLESTOWN WATERLINE PROJECT**

*Location:* Charlestown portion of Lonaconing, Allegany County.  
*Nature:* Extend the public water distribution system to replace private water supplies that have been impacted by the Buffalo 422 Forfeiture.  
*Start Date:* October 26, 2011  
*Cost:* \$459,525.46  
*Fund Source:* Bond Supplemental Reserve

**THELMA DAVIS WELL SEALING PROJECT**

*Location:* Just north of Midland, Allegany County.  
*Nature:* Seal the well at the Davis residence to prevent artesian flow contaminated with acid mine drainage from entering the basement.  
*Completion Date:* May 18, 2011  
*Estimated Cost:* \$6,069.00  
*Fund Source:* AML Maintenance

**CROSSLAND WELL SEALING PROJECT**

*Location:* Just north of Midland, Allegany County.  
*Nature:* Seal the well at the Larry Crossland residence (formerly the Ross Property) to prevent artesian flow contaminated with acid mine drainage from entering the basement.  
*Completion Date:* November 25, 2011  
*Estimated Cost:* \$5,986.00  
*Fund Source:* AML Maintenance

**MIDLAND NORTH GOB PILE AML ENHANCEMENT PROJECT**

*Location:* Within the city limits of Midland, Allegany County.  
*Nature:* Excavation an abandoned gob pile and removal to an approved permitted mining facility for reprocessing. Regrading, topsoiling and stabilizing of the final grade.  
*Completion Date:* August 15, 2011  
*Cost:* \$2,000

*Fund Source:* State Deep Mine Fund

**ALTHOUSE HILL ROAD GOB PILE AML ENHANCEMENT PROJECT**

*Location:* 1 mile West of Gorman, Garret County.  
*Nature:* Excavation an abandoned gob pile and removal to an approved permitted mining facility for reprocessing. Regrading, topsoiling and stabilizing of the final grade.  
*Completion Date:* November 1, 2011  
*Cost:* \$2,000  
*Fund Source:* State Deep Mine Fund

**KENNEL MINE CLOSURE AND STREAMBANK STABILIZATION PROJECT**

*Location:* Just North of Mount Savage, Allegany County along the west bank of Jennings Run.  
*Nature:* Closure of one deep mine entry and stabilization of 250 feet of stream bank.  
*Completion Date:* September 20, 2011  
*Cost:* \$22,170.00  
*Fund Source:* MD-Federal AML Fund

**STEYER DEEP MINE CLOSURE PROJECT**

*Location:* Multiple locations near the town of Steyer, Garrett County.  
*Nature:* Closure of three deep mine entries including the installation of one bategate.  
*Completion Date:* September 30, 2011  
*Cost:* \$24,500.00  
*Fund Source:* MD-Federal AML Fund

**BLOOMINGTON DEEP MINE CLOSURE PROJECT**

*Location:* 2.25 miles west of Bloomington in Garrett County along Laurel Run.  
*Nature:* Installation of a bat gate at one deepmine entry.  
*Start Date:* September 30, 2011  
*Cost:* \$22,000.00  
*Fund Source:* MD-Federal AML Fund

**NORTH GEORGES CREEK DEEP MINE CLOSURE PROJECT**

*Location:* 3.5 miles SSW of Frostburg near Klondike, Allegany County  
*Nature:* Installation of a bat gate at one deepmine entry and filling of 2 vertical openings.  
*Start Date:* November 18, 2011  
*Cost:* \$11,500.00  
*Fund Source:* MD-Federal AML Fund

**SAND SPRING RUN STREAM CHANNEL STABILIZATION PROJECT – Phase I**

*Location:* Just west of Frostburg State University along the banks of Sand Spring Run, Frostburg, Allegany County  
*Nature:* Relocation of 500 LF of sewer line to allow AML spoil to be removed from the Sand Spring Run flood plain under the phase II portion of the project.  
*Start Date:* December 6, 2011  
*Cost:* \$66,643.00  
*Fund Source:* MD-Federal AML Fund

**GORDON LANDSLIDE EMERGENCY PROJECT**

*Location:* Just south of Lonaconing on Detmold Hill near the outcrop of the Pittsburg Coal Seam

*Nature:* A small landslide of approximately 500 cubic yards located on a steeply sloping hillside above the Gordon Residence.

*Start Date:* September 1, 2011

*Cost:* \$2,550.00

*Fund Source:* MD-Federal AML Fund

## MINING PERMITS ISSUED BY YEAR AND PERMITTEE

Permit No.	Year Issued	Permittee
1	1955	The George's Creek Lumber Company*
2	1955	Allegany Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
5	1955	Car and Gotfelty Construction Co.*
6	1955	M.H. Bigan Coal Company*
7	1955	Moran Coal Company*
8	1955	Allegany Engineering Company*
9	1955	Schell 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 338)*
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	Schell 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	Allegany 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. **
40	2008	Ritchie Trucking & Excavating, Inc. (Reinstated in 2008)
41	1958	Buffalo Coal Company, Inc.*
42	1958	Casey Construction Company**
43	1958	Sara-Ki Coal Company, Inc.*
44	1958	Yantus & Zubek Coal Company*
45	1958	Moran Coal Company*
46	1958	Casey Construction Company**
47	1958	Moran Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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	1959	George L. Smith Contracting Company*
54	1959	The Georges Creek Lumber Company*
55	1959	Moran Coal Company*
56	1959	North Branch Coal Corporation*
57	1959	George Coal Company**
58	1959	Samuel Compton & Company**
59	1959	Hoover & White*
60	1959	Laurel Creek Company, Inc.**
61	1959	The Eddy Fuel Company**
62	1959	J.R. Thrasher Contracting & Stripping Co.*
63	1959	Pittsburgh Coal Company*
64	1959	Mineral Coal Company, Inc., of West Virginia*
65	1959	Laurel Creek Company, Inc.*
66	1959	The Georges Creek Lumber Company*
67	1959	Chelsie A. Liller*
68	1959	Casey Contracting Company**
69	1959	Pine Mountain Coal Company*
70	1959	Opel and Brenneman*
71	1959	The Georges Creek Lumber Company*
72	1959	P.&J. Coal Company*
73	1959	Casey Contracting Company**
74	1959	Goodwill Fuel Company*
75	1959	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*
90	1960	Mack Coal Company*
91	1960	Clarence Rodamar*
92	1960	James E. George*
93	1961	Casey Contracting Company**
94	1961	Winner Brothers*
95	1961	Moran Coal Company, Inc.*
96	1961	Big Vein Coal Company*
97	1961	Maryland Fuel Company, Inc.*
98	1961	Yantus-Zubek Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
99	1961	J.R. Thrasher Contracting & Stripping Co.*
100	1961	Trefall Bros., Inc.*
101	1961	Mack Coal Comany*
102	1961	C.A. Liller Company*
103	1961	Cross & Brumage Coal Company*
104	1961	Beener Coal Company*
105	1961	D&K Coal Company*
106	1961	Mack Coal Company*
107	1961	Yantus and Zubek*
108	1961	Potomac Mining Company*
109	1962	Casey Contracting Company*
110	1962	Wilhelm Coal Company*
111	1962	The Georges Creek Lumber Company*
112	1962	Clark Coal Company*
113	1962	Casey Contracting Company*
114	1962	Casey Contracting Company*
115	1962	Douglas Coal Company*
116	1962	Red Lion Mining Corporation**
117	1962	Ebensburg Coal and Clay Company*
118	1963	James E. George*
119	1963	Ebensburg Coal and Clay Company*
120	1963	J.R. Thrasher Contracting & Stripping Co.*
121	1963	Moran Coal Company, Inc.*
122	1963	Buffalo Coal Company, Inc.*
123	1963	J.R. Thrasher Contracting & Stripping Co.*
124	1963	Win-More Mining & Construction Co., Inc.*
125	1963	Beener Coal Company*
126	1964	W.R. Nethken and Company, Inc.*
127	1964	Mack Coal Company*
128	1964	J.R. Thrasher Contracting & Stripping Co.*
129	1964	J. Russell Cravener*
130	1964	Chelsie A. Liller*
131	1964	The Georges Creek Lumber Company*
132	1964	Brenneman Brothers*
133	1965	W.R. Nethken and Company, Inc.*
134	1965	Richards and Parnell Coal Company*
135	1965	William Brashear*
136	1965	W.R. Nethken and Company, Inc.*
137	1965	G&S Coal Company, Inc.*
138	1966	J.R. Thrasher Contracting & Stripping Co.*
139	1966	J.R. Thrasher Contracting & Stripping Co.*
140	1966	Shallmar Coal Company, Inc.*
141	1966	Randall Robertson**
142	1966	Ace Drilling Coal Company, Inc.*
143	1966	Beener Coal Company*
144	1966	Clarence Rodamer*
145	1967	Ginniman Coal Company*
146	1967	Raymond A. Wolf Mining Company*
147	1967	Menallen Coke Company*
148	1967	Russel Shafer*
149	1967	Homage Coal Co. (Emmett Dupstadt)*
150	1967	Twin States Coal Company**



<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
151	1967	M.F. Fetterolf Coal Company, Inc.*
152	1967	Ebensburg Coal and Clay Company*
153	1968	Raymond A. Wolf Mining Co. (UPRC)*
154	1968	Michael Rostosky*
155	1968	Ginniman & Ware Coal Company*
156	1968	Harold H. Upole Coal Company*
157	1968	T.G.&C. Coal Company, Inc.*
158	1969	Clarence Rodamer Coal Company*
159	1969	Michael Rostosky Coal Company*
160	1969	Russel Shafer Coal Company*
161	1969	Buffalo Coal Company, Inc.*
162	1969	J.R. Thrasher Contracting & Stripping Co.***
163	1969	Buffalo Coal Company, Inc.*
164	1969	Union Coal Company*
165	1970	Win-More Mining & Construction Co., Inc.*
166	1970	Ginniman Coal Company*
167	1970	Upperman 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 Duppstadt*
179	1971	Somerset Excavating, Inc.*
180	1971	Ayers Coal Company*
181	1971	Delta Mining, Inc.*
182	1971	Patriot Mining Company, Inc.*
183	1971	Chief Coal Company*
184	1971	Cobra Mining, Inc.*
185	1971	Bessemer Iron & Coal Company*
186	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.*
190	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. Fetterolf 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*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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.*
216	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 Mikel*
224	1974	Delta Mining, Inc.*
225	1974	Northwest Coal Company, Inc.*
226	1974	Thrasher Coal Company**
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*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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	Tri-Star Mining, Inc.*
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.*
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	1976	Inter-State Lumber Company*
279	1976	Buffalo Coal Company, Inc.*
280	1976	Delta Mining, Inc.*
281	1976	Rondell Company*
282	1976	Phillips Coal, Inc.*
283	1976	G&H Coal Company, Inc.*
284	1976	Tower Resources, Inc.*
285	1976	Clinton Coal Company**
286	1976	Winner Bros. Coal Company, Inc.*
287	1976	T.L. Moran, Inc.*
288	1976	Delta Mining, Inc.*
289	1976	Pine Mt. Coal Company*
290	1976	Delta Mining, Inc.*
291	1976	George Nolan**
292	1976	Alexander Coal Co.*
293	1976	Pine Mt. Coal Company*
294	1976	Arlen Miller***
295	1976	Action Mining, Inc.*
296	1976	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.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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. *
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**
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	Schwinabart & 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*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
358	1980	Bridgeview Coal Company*
359	1980	Buffalo Coal Company, Inc.**
359	2008	Beechwood Coal, LLC. (Reinstated)
360	1980	Buffalo Coal Company, Inc.*
361	1980	Pamela Mines, Inc.**
362	1980	Alpha Mining, Inc.*
363	1980	Pamela Mines, Inc.**
364	1980	John Duckworth Coal Company*
365	1980	G&S Coal Company, Inc.*
366	1980	Buffalo Coal Company, Inc.*
367	1980	Buffalo Coal Company, Inc.**
368	1980	United Energy Coal, Inc.**
369	1980	Bittering Coal Company*
370	1982	Keystone Mt. Development Company*
371	1982	Eagle Mining, Inc.*
372	1982	John Duckworth Coal Company*
373	1982	Kirby Energy, Inc. **
374	1982	Winner Bros. Coal Company, Inc. *
375	1982	Win-More Mining & Construction Company *
376	1982	Jones Coal, Inc.**
377	1982	Allegheny Mining Corporation*
378	1982	Delta Mining, Inc.**
379	1982	Masteller Coal Company*
380	1982	Fairview Coal Company (Repermitted 399)*
381	1982	Richard Duckworth Coal Company*
382	1983	Pine Mt. Coal Company*
383	1983	Allegheny Mining Corporation*
384	1983	Evans Coal Company*
385	1983	Winner Bros. Coal Company, Inc.*
386	1983	Jones Mining, Inc.*
387	1983	Hilltop Construction Company**
388	1983	Fetterolf Mining, Inc.*
389	1983	Winner Bros. Coal Company, Inc.*
390	1983	C.J. Merlo, Inc.*
391	1983	Oak Springs Coal Company*
392	1984	Westvaco Resources, Inc.*
393	1984	Patriot Mining Company, Inc.
394	1984	Action Mining, Inc.*
395	1984	Stan-Jan Excavating, Inc.*
396	1984	Allegheny Mining Corporation*
397	1985	Michael R. McGowan*
398	1985	Brashear Coal Company*
399	1985	Fairview Coal Company
400	1985	Delta Mining, Inc.*
401	1985	Buffalo Coal Company, Inc.***
402	1985	Pine Mt. Coal Company*
403	1985	T.D. Mining Company**
403	2003	United Energy, Inc.**
403	2008	Beechwood Coal, LLC
404	1986	Clise Coal Company
405	1986	Jones Coal, Inc.**
406	1986	Patriot Mining Company, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
407	1986	Ritchie Trucking & Excavating
408	1986	Tri Star Mining, Inc.*
409	1986	Buffalo Coal Company, Inc.*
410	1987	J. Walter Wassell*
411	1987	Jenkins Development Company
412	1987	John Duckworth Coal Company***
413	1988	Buffalo Coal Company, Inc.*
414	1989	United Energy Coal, Inc.**
415	1989	Pine Mt. Coal Company*
416	1989	Action Mining, Inc.*
417	1989	Tri Star Mining, Inc.*
418	1991	Tri Star Mining, Inc.*
419	1991	Tri Star Mining, Inc.
420	1991	Pine Mt. Coal Company *
421	1992	G&S Coal Company, Inc.
422	1992	Buffalo Coal Company, Inc. **
423	1992	United Energy Coal, Inc. **
424	1995	Pine Mt. Coal Company
425	1995	Tri Star Mining, Inc.*
426	1996	Tri Star Mining, Inc.*
427	1996	Vindex Energy Corp.
428	1997	Mettiki Coal, LLC
429	1997	Tri Star Mining, Inc.*
430	1998	G&S Coal Company, Inc.
431	1998	Vindex Energy Corp.
432	1999	Vindex Energy Corp.
433	1999	Win-More Mining & Construction*
434	1999	Tri Star Mining, Inc.
435	2000	G&S Coal Company, Inc.
436	2000	Tri-Star Mining
437	2001	Cobra Mining, Inc.
438	2001	Mountaineer Mining Corp.*
439	2001	Vindex Energy Corp.
440	2001	G&S Coal Company, Inc.
441	2002	G&S Coal Company, Inc.
442	2002	Vindex Energy Corp.
443	2002	Vindex Energy Corporation
444	2003	Tri Star Mining, Inc.
445	2004	Moran Coal Company
446	2004	Moran Coal Company
447	2005	Jenkins Development Company
448	2005	Savage Mountain Minerals, Inc.
449	2005	Clise Coal Company
450	2006	LAOC Corporation
451	2006	Mountaineer Mining Corporation
452	2006	WPO, Inc.
453	2007	Walker Brothers Mining, Inc.
454	2007	G&S Coal Company, Inc.
455	2008	G&S Coal Company, Inc.
456	2009	C&S Coal Company

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
457	2011	Beechwood Coal, LLC
458	2011	LAOC Corporation
459	2011	Vindex Energy Corporation

DEEP MINES

DM 101	1977	Mettiki Coal, LLC
DM 102	1977	Masteller Coal Company*
DM 103	1977	Mt. Top Coal Company*
DM 104	1977	Mettiki Coal Corporation*
DM 105	1977	Mettiki Coal Corporation*
DM 106	1978	A&J Coal Corporation**
DM 107	1982	Masteller Coal Company*
DM 108	1989	Wolf Run Mining*
DM 109	1991	Wolf Run Mining
DM 110	1992	Masteller Coal Company **
DM 111	2000	ARJ Construction
DM 112	2003	Backbone Mountain, LLC
DM 113	2009	Maryland Energy Resources, LLC

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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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-08-104	2008	Beechwood Coal, LLC (Reinstated)
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	Franklin Coal Yard, LLC
SC-87-117	1987	Tri Star Mining, Inc.
SC-87-118	1987	Vindex Energy Corp.
SC-06-119	2006	Clise Coal Company, Inc.*
SC-07-120	2007	G&S Coal Company, Inc.

\* Operation Completed and Bond Released

\*\* Forfeiture of Bond

\*\*\* Not Activated