



Department of the Environment

Eighty-Ninth Annual Report of the Maryland Bureau of Mines – 2010 –

Prepared by:

Land Management Administration
Mining Program

Prepared for:

The Maryland General Assembly
Annapolis, MD

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

Michael E. Busch, House Speaker
Maryland General Assembly

November 2011



MARYLAND DEPARTMENT OF THE ENVIRONMENT
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Martin O'Malley, Governor | Anthony G. Brown, Lt. Governor | Robert Summers, Ph.D., Secretary



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EXECUTIVE SUMMARY

During calendar year 2010, Maryland operators produced 2,900,027.52 tons of coal. Surface coal mining production was 1,320,083.75 tons in Allegany County and 976,638.12 in Garrett County. Deep coal mining production was 603,305.65 tons, all in Garrett County.

One hundred-nine coal mine permit actions were received and one hundred-twelve permitting actions were issued, including four permit increments, and seven permit amendments, totaling fifty-three acres. Included in the permitting actions were thirty-two operator's license renewals. Other permit actions included: modifications, transfers and prospecting permits.

Two hundred fifty-three acres were affected, 250 acres backfilled, and 250 acres planted. Bond was totally released on 301 acres.

Eight hundred fifty-eight inspections were performed on coal mining operations. Thirteen Notices of Violation were issued. Thirty-seven Citizen Complaints were received and investigated and there were eight cessation orders issued. There were zero Bond Forfeitures during this calendar year.

The Land Reclamation Committee met twelve times and approved three reclamation plans. The Committee also evaluated the revegetation on 599 acres eligible for Phase II bond release and approved 302 acres as meeting the standards for release. There were four reclamation plan changes during the year.

Using various funds sources, the Abandoned Mine Lands Division completed seven projects during Calendar Year 2010, totaling \$1,802,894.33 in construction costs.

PERSONNEL FOR CALENDAR YEAR 2010

MINING PROGRAM

C. Edmon Larrimore. Program Manager, Mining Program
Jeff Buser Administrator II
Sallie Shuman. Administrative Officer I
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

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

Laboratory & Support Services

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 III
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

Program Support Staff

Assistant Attorney General MDE
Jaron Hawkins Water Shed Technical Assistant

**SUMMARY OF STATISTICS FOR THE CALENDAR YEAR 2010
REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland during 2010 totaled 2,900,027.52 tons. Production in 2010 represents a increase of 408,838.05 tons from the 2009 production of 2,491,189.47 tons.

SUMMARY OF 2010
STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total
Strip	1,320,083.75	976,638.12	2,296,721.87
Deep	.00	603,305.65	603,305.65
Auger	.00	.00	.00
TOTALS	1,320,083.75	1,579,943.77	2,900,027.52

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total
Deep	0	80	80
Strip	154	130	284
TOTALS	154	210	364

¹Obtained from reports submitted by Maryland mining operators.

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

**FOR THE CALENDAR YEAR 2010
TONNAGE BY COAL SEAMS**

Allegheny County

Waynesburg	1,041.23
Sewickley (Tyson)	6,531.82
Redstone	104,928.76
Pittsburgh	1,006,335.70
Morantown	71,668.08
L. Pittsburgh	38,107.71
Franklin	90,826.33
Harlem	0
Bakerstown	0
Freeport	644.12
Kittanning	0
Federal Hill	0
Barton	0

TOTAL 1,320,083.75

Garrett County

Sewickley	59,492.35
Pittsburgh	70,883.21
Morantown	10,302.51
L. Pittsburgh	12,261.12
Franklin	214,422.58
Barton	423,692.33
Elk Lick	0
Harlem	19,823.34
Bakerstown	269,035.33
Upper Freeport	207,747.43
Freeport	
278,598.01	
Kittanning	0
Redstone	13,685.56
Evans	0

TOTAL 1,579,943.77

TONNAGE BY BASIN

Lower Youghiogeny	0
Upper Youghiogeny	0
Casselman	5511.14
Casselman (Cherry Creek)	0
Potomac	1,272,380.05
George's Creek	1,622,136.33

TOTAL 2,900,027.52

**CALENDAR YEAR 2010
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)			Acres Affected	Acres Backfilled	Acres Planted
			Deep	Strip	Auger			
Beechwood Coal, LLC	359	Pittsburgh		18,584.33		6.0	0.0	0.0
		Morantown		651.55		--	--	--
		Redstone		7,902.66		--	--	--
	403	Pittsburgh		10,759.24		28.0	4.0	4.0
C & S Coal, LLC	456	Pittsburgh		3,781.76		2.0	0.0	0.0
Clise Coal Company, Inc.	404	Waynesburg		1,041.23		4.0	13.0	13.0
		Pittsburgh		15,567.41		7.0	9.0	9.0
		Pittsburgh		11,279.34		0.0	0.0	0.0
Cobra Mining, Inc.	437	Pittsburgh		16,471.20		0.0	0.0	0.0
		Morantown		4,003.87		--	--	--
Fairview Coal Co., Inc.	399	Pittsburgh		40,118.93		0.0	0.0	0.0
		Morantown		280.75		--	--	--
		Redstone		1,442.22		--	--	--
G & S Coal Company, Inc.	430	Pittsburgh		0.00		0.0	37.0	37.0
		Pittsburgh		19.75		0.0	8.0	8.0
	440	L.Pittsburgh		16,286.45		--	--	--
		Morantown		530.15		--	--	--
Jenkins Development Co., Inc.	411	Waynesburg		0.00		0.0	18.0	18.0
Mountaineer Mining Corp.	451	Pittsburgh		18,458.33		4.5	0.0	0.0
		Morantown		18,649.58		--	--	--
		Redstone		2,597.06		--	--	--
		Sewickley		2,041.80		--	--	--
Ritchie Trucking & Excavating, Inc.	40	Pittsburgh		59,312.20		1.0	9.0	9.0
		Redstone		54,379.14		--	--	--
		Sewickley		2,480.77		--	--	--
		Morantown		1,629.48		--	--	--
	407	Pittsburgh		17,230.21		2.0	0.0	0.0
		Redstone		31,573.21		--	--	--
		Sewickley		2,009.25		--	--	--
		Morantown		173.71		--	--	--

		Freeport	644.12	--	--	--
Tri-Star Mining, Inc.	264	Franklin	16,109.78	0.0	0.0	0.0
	419	Pittsburgh	84,042.96	14.0	6.0	6.0
		L.Pittsburgh	21,821.26	--	--	--
		Morantown	36,401.86	--	--	--
		Redstone	40.46	--	--	--
		Sewickley	0.00	--	--	--
	436	Franklin	74,716.55	9.0	0.0	0.0
Vindex Energy Corp.	393	Pittsburgh	292,599.50	32.0	18.0	18.0
	427	Pittsburgh	0.00	0.0	14.0	14.0
	432	Pittsburgh	404,662.68	36.0	0.0	0.0
Walker Bros. Mining, Inc.	453	Pittsburgh	13,447.86	0.0	0.0	0.0
		Morantown	9,347.13	--	--	--
		Redstone	6,994.01	--	--	--

TOTAL ALLEGANY COUNTY

1,320,083.75

137.5

136.0

136.0

GARRETT COUNTY

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)			Acres Affected	Acres Backfilled	Acres Planted
			Deep	Strip	Auger			
ARJ Construction	DM111	Barton	406,035.09			0.0	0.0	0.0
Backbone Mountain, LLC	DM112	Bakerstown	191,759.42			0.0	0.0	0.0
Beechwood Coal, LLC	403	Pittsburgh		6,007.24		(See	Allegany	County)
		Morantown		679.86		--	--	--
		Redstone		8,495.69		--	--	--
G & S Coal Company, Inc.	421	Franklin		29,463.13		6.0	8.0	8.0
	435	Bakerstown		9,534.84		3.0	18.0	18.0
		Barton		2,355.06		--	--	--
		Harlem		5,292.46		--	--	--
	441	Bakerstown		14,328.74		6.0	12.0	12.0
	454	Barton		5,341.45		4.0	0.0	0.0
		Harlem		6,965.38		--	--	--
		Bakerstown		5,084.75		--	--	--
	455	Harlem		7,565.50		5.0	0.0	0.0
LAOC Corporation	450	Bakerstown		48,327.58		6.0	7.0	7.0
MER, LLC	DM113	Upper Freeport	5,511.14			--	--	--
Mettiki Coal Corporation	DM101	Upper Freeport		0.00		6.0	0.0	0.0
	428	Bakerstown		202,236.29		27.0	13.0	13.0
Pine Mountain Coal Company	424	Pittsburgh		6,972.76		1.0	0.0	0.0
		Morantown		1,316.53		--	--	--
		Redstone		5,189.87		--	--	--
Savage Mountain Minerals, Inc.	445	L.Pittsburgh		0.00		0.0	7.0	7.0

	446	Sewickley	59,492.35	8.0	22.0	22.0	
	448	Barton	9,960.73		3.0	0.0	0.0
Tri-Star Mining, Inc.	419	Pittsburgh	57,903.21		(See	Allegany	County)
		L.Pittsburgh	12,261.12	--	--	--	--
		Redstone	0.00		--	--	--
		Morantown	8,306.12			--	--
		Barton	0.00		--	--	--
	434	Franklin	0.00		0.0	19.0	19.0
	444	Franklin	189,959.45		6.0	0.0	0.0
Vindex Energy Corporation	443	Freeport	262,067.55		34.0	8.0	8.0
WPO, Inc.	452	Freeport	16,530.46		1.0	0.0	0.0
Wolf Run Mining, Inc.	DM109	Freeport	0.00		0.0	0.0	0.0
TOTAL GARRETT COUNTY			603,305.65		976,638.12	116.0	114.0
TOTAL BOTH COUNTIES			603,305.65		2,296,721.87	253.5	250.0

**FOR CALENDAR YEAR 2010
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2010
(By Geological Basin)**

	<u>ACRES THIS YEAR</u>				Bond Released*
	Permitted	Affected	Backfilled	Planted	
Allegany County:					
Georges Creek Basin	47.00	151.00	50.00	49.00	247.00
Garrett County:					
Georges Creek Basin	0.00	17.00	21.00	11.00	34.00
Potomac River Basin	10.00	150.00	49.00	136.00	20.00
Casselman River Basin**	0.00	21.00	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	0.00	188.00	70.00	147.00	54.00
TOTAL BOTH COUNTIES	57.00	339.00	120.00	196.00	301.00

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2010

Allegany County:					
Georges Creek Basin	8,352.30	7,047.50	5,820.47	5,883.30	5,671.00
Garrett County:					
Georges Creek Basin	3,185.00	2,849.95	2,564.80	2,813.81	2,952.60
Potomac River Basin	5,584.00	4,863.70	4,183.00	4,346.40	298.00
Casselman River Basin**	1,438.00	1,156.00	1,260.50	1,142.20	1,265.80
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	12,425.00	10,612.50	9,937.61	10,115.67	6,266.25
TOTAL BOTH COUNTIES	20,777.30	17,660.00	15,758.08	15,998.97	11,937.25

*Total Bond Release by the Bureau.

**Total Casselman Geological Basin.

PERMITTING ACTIVITY

CALENDAR YEAR 2010

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	2	0	0	0	0	0	0	0	0	2	0	0
Permit Increments	3	3	16	1	1	0	0	0	0	4	4	38
Modifications With Acreage	5	6	41	2	0	0	1	1	17	8	7	53
Modifications Without Acreage	37	40		6	5		2	3		45	48	
Transfers	1	3		0	0		0	0		1	3	
Renewals	4	9		2	1		0	0		6	10	
Prospecting Permits	1	0		0	0		0	0		1	0	
Prospecting Letter of Intent	10	8		0	0		0	0		10	8	
Operators License Original	0	0		0	0		0	0		0	0	
Operators License Renewals	27	27		6	6		0	0		32	32	
Totals	90	96	57	17	13	0	3	4	17	109	112	91

FOR CALENDAR YEAR 2010

**MINE FOREMAN AND FIRE BOSS
EXAMINATIONS AND CERTIFICATIONS**

The number of Mine Foreman and Fire Boss applicants examined and certified from 1996 through 2010 is identified below.

YEAR	<u>APPLICANTS EXAMINED</u>		<u>APPLICANTS CERTIFIED</u>	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
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
1996	0	0	4	0

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

**INSPECTION AND ENFORCEMENT ACTIVITIES
2006-2010**

TYPE OF ACTION	2006	2007	2008	2009	2010
Inspections	934	972	970	773	858
Notices of Violations	70	8	9	7	13
Cessation Orders	32	2	0	0	8
Citizen Complaints	27	33	14	18	37
Bond Forfeitures	1	12	0	0	0

**FOR THE CALENDAR YEAR 2010
LAND RECLAMATION COMMITTEE**

Members:

The following members served on the Land Reclamation Committee during 2010:

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

Cossette 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 2010
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 2010, the Land Reclamation Committee conducted site visits on 6 days. These visits included field reviews of 2 proposed mining sites and 54 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 2010, the Land Reclamation Committee met twelve times. During these meetings, the Land Reclamation Committee approved three reclamation plans, evaluated 599 acres of revegetation eligible for Phase II bond release and approved 302 acres as meeting the standards for release. There were four reclamation plan changes during the year.

Reclamation Results		
Calendar Year 2010		
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 	43
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 	170
Phase III	<ul style="list-style-type: none"> • Post-mining 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 	202

2010 Reclamation Award

Permit SM-83-213 Clise Coal Company Inc.

Clise Coal Company assumed control of this permit located on the Koontz farm near Klondike in 1985. At that time 50 acres of the permit had been mined and was in an unreclaimed condition.

Within a few years Clise had reclaimed the 50 open acres and over time mined an additional 50 acres on the site. During this time the mine showed a production of 302,000 tons of coal from the Waynesburg and Swickley seams. The site has been reclaimed to a combination of grass fields on the ridge top and forested areas on the steeper slopes. The site holds abundant wildlife and blends well with the surrounding area.

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

*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 2010 ABANDONED MINE LAND DIVISION

During 2010, the Mining Program, Abandoned Mine Land Division (AML) completed 7 projects and operated/maintained 40 Acid Mine Drainage (AMD) treatment systems for a total cost of \$1,802,894.33. 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 reclaim and restore 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 also fulfills the reclamation requirements of "post-SMCRA" coal-mines in which 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 2010.

AARON RUN ACID MINE DRAINAGE TREATMENT AND STREAM STABILIZATION PROJECT

Location: 3 Miles Northwest of Westernport, Garrett County
Nature: Chemical and physical restoration of Aaron Run.
Completion Date: Substantially Complete on December 20, 2010
Contractor: Robert Beitzel Excavating
Cost: \$ 546,689.83
Fund Source: MD-Federal AML Fund, EPA, OSM Watershed Cooperative Funds, US Fish and Wildlife Brooke Trout Funding

OWENS NORTH ACID MINE DRAINAGE TREATMENT PROJECT

Location: 1 mile north of Westernport, Allegany County.
Nature: AMD treatment system to restore Aaron Run.
Completion Date: April, 2010
Contractor: Kiddy Contractors
Cost: \$182,669.50
Fund Source: OSM Watershed Cooperative Funds, EPA

FRANKLIN DEEP MINE CLOSURE

Location: Just North of Franklin, Allegany County, along the west bank of Georges Creek.
Nature: Installation of bat gates into 3 abandoned deep mine openings.
Completion Date: November 30, 2010
Contractor: Marshall Ruby and Sons
Cost: \$14,985
Fund Source: MD-Federal AML Fund

KIRBY ENERGY PERMIT 373 FORFEITURE RECLAMATION PROJECT

Location: 1.5 miles northeast of Frostburg, Allegany County.
Nature: Reclamation of the revoked mining permit 373 consisting of 340,000 cubic yards of spoil and revegetation of 22 acres of disturbed area.
Completion Date: July 14, 2010
Contractor: ALL Construction
Cost: \$501,650.00
Fund Source: Bond (\$76,087) and Bond Supplemental Fund (\$425,563)

ZILMAN GOB PILE AML ENHANCEMENT PROJECT

Location: 2 miles north of Frostburg, Allegany County just east of State Route 36.
Nature: Resource recovery and site reclamation of 1 acre of abandoned coal refuse being completed under the AML Enhancement Rule, Project # GFCA-10-05.
Completion Date: April 15, 2010
Contractor: Circle C Coal Company
Cost: \$2200
Fund Source: State Deep Mine Funds

MIDLAND GOB PILE AML ENHANCEMENT PROJECT

Location: Along the northwest city limits of Midland, Allegany County
Nature: Resource recovery and site reclamation of 1 acre of abandoned coal refuse being completed under the AML Enhancement Rule, Project #
Completion Date: October, 2010
Contractor: Circle C Coal Company
Cost: \$ 2,500
Fund Source: State Deep Mine Fund

BROKEN HART GOB PILE AML ENHANCEMENT PROJECT

Location: 2 miles north of Frostburg, Allegany County just west of State Route 36.
Nature: Resource recovery and site reclamation of 1 acre of abandoned coal refuse being completed under the AML Enhancement Rule, Project # GFCA-08-02.
Start Date: August 18, 2008
Contractor: Circle C Coal Company
Cost: \$2200
Fund Source: State Deep Mine Funds

ACID MINE DRAINAGE SYSTEMS OPERATION AND MAINTENANCE

Location: Maryland Coal Region

Nature: Perform Operation and Maintenance activities on 40 passive and active AMD treatment systems that restore and improve 83 miles of stream in Maryland's coal region.

Completion Date: On-going

Contractor: In-house Staff

Cost: \$550,000

Fund Source: Acid Mine Drainage Treatment and Abatement Fund

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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*
Permit No.	Year Issued	Permittee
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
	Duppstadt)*	
150	1967	Twin States Coal Company**
Permit	Year	
<u>No.</u>	<u>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*
Permit	Year	

<u>No.</u>	<u>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*
Permit	Year	
<u>No.</u>	<u>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.*
Permit <u>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 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	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*
Permit	Year	
<u>No.</u>	<u>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	Bittinger 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.*
Permit	Year	
<u>No.</u>	<u>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>
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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
DM113	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