

Ninety-Sixth Annual Report of the

Maryland Bureau of Mines

 -2017-

Prepared by:

Land and Materials Administration

Mining Program

Prepared for:

Larry Hogan, Governor

State of Maryland

Boyd K. Rutherford, Lt. Governor

State of Maryland

Thomas V. Mike Miller, Jr., Senate President

Maryland General Assembly

Adrienne A. Jones, House Speaker

Maryland General Assembly

 Senate Education, Health, and Environmental Affairs Committee

House Environment and Transportation Matters Committee

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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 **TABLE OF CONTENTS**

Executive Summary 4

Summary of Statistics - Coal Production 5

Summary of Statistics - Employees 5

Tonnage by Coal Seams, County, and Basin 6

Production, Mining, and Reclamation Statistics by Permit 7

Summary of Land Mined, Backfilled, and Planted 10

Permitting Activity 14

Mine Foreman and Fire Boss Examinations and Certifications 15

Inspection and Enforcement Activities 15

Land Reclamation Committee Membership 16

Land Reclamation Committee Functions and Duties 17

Reclamation Results of Surface Mined Lands 17

2017 Reclamation Awards 18

Mining Permits Issued by Year and Permittee 19

# **EXECUTIVE SUMMARY**

This report is published by the Maryland Department of Environment (MDE), in accordance with the Annotated Code of Maryland Environment Article, §15-203(g), covering coal mine operations.

During CY17, Maryland operators produced 2.16 million tons of coal. Surface coal mining production totaled 0.77 million tons in Allegany County, and 0.29 million tons in Garrett County. Deep coal mining production totaled 1.10 million tons, all in Garrett County.

MDE’s Bureau of Mines received 70 coal mine permit applications, and approved 73 permitting actions, including three permit amendments. Included in the permitting actions were 23 operator’s license renewals. Other permit actions included modifications, transfers, and prospecting permits.

Two hundred thirty-eight acres were affected, 119 acres rough backfilled, and 209 acres were vegetatively stabilized with a variety of grasses, legumes and trees. The bond was totally released on 71 acres.

Seven hundred seventy inspections were conducted on coal mining operations. Seven Notices of Violation were issued. Fifteen Citizen Complaints were received and investigated, and there were no cessation orders issued. There were no Permit Revocations or Bond Forfeitures..

The Land Reclamation Committee met six times and approvedtwo2 reclamation plans. The Committee also evaluated the revegetation on 333 acres eligible for Phase II bond release, and approved 322 acres as meeting the standards for release. There were two reclamation plan changes during the year.

|  |  |
| --- | --- |
| **SUMMARY TABLE** | **2017** |
| Permits - new | 47 acres |
| Permits - renewals | 23 acres |
| Permits - amended | 3 acres |
| Area stripped | 238 acres |
| Area planted | 209 acres |
| Bond release | 71 acres |

### SUMMARY OF STATISTICS FOR THE CY17

**REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland during 2017 totaled 2,162,009.62 tons. Production in 2017 represents an increase of 153,191.57 tons over the 2016 production of 2,008,818.05 tons.

**SUMMARY OF 2017**

 **STATISTICS1**

### COAL PRODUCTION (TONS)

|  |  |  |  |
| --- | --- | --- | --- |
| **Mining****Method** | **Allegany****County** | **Garrett****County** | **Total** |
| **Strip** | 779,609.05 | 290,484.17 | 1,070,093.22 |
| **Deep** |  .00 | 1,091,916.40 | 1,091,916.40 |
| **Auger** |  .00 | .00 | .00 |
| **TOTALS** | 779,609.05 | 1,382,400.57 | 2,162,009.62 |

 **EMPLOYEES2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of****Mine** | **Allegany****County** | **Garrett****County** | **Total** |
| **Deep****Strip** |  087 | 13382 | 133169 |
| **TOTALS** | 87 | 215 | 302 |

1Obtained from reports submitted by Maryland mining operators.

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

 **TONNAGE BY COAL SEAMS**

 **ALLEGANY COUNTY**

Waynesburg . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 11,480.87

Sewickley . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 24,968.35

Redstone . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 250,555.21

Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 384,251.40

Morantown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 39,828.71

L. Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 53,644.67

Franklin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Harlem . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Bakerstown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Freeport . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Tyson . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 14,879.84

Borden . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Barton . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

 **TOTAL . . . . . . . . . .. . . . . . . . . . . 779,609.05**

**GARRETT COUNTY**

Sewickley . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ... 1,846.66

Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 64,588.64

Morantown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12,788.51

L. Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 44,668.13

Franklin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 11,158.71

Barton . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 259,280.86

Harlem . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 18,378.16

Bakerstown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 84,775.25

Freeport . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 875,132.00

Upper Kittanning . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Middle Kittanning . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Redstone . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9,783.65

Tyson . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Waynesburg . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

 **TOTAL . . . . . . . . . . . . . . . . . . . . 1,382,400.57**

**TONNAGE BY BASIN**

Lower Youghiogheny . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Upper Youghiogheny . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Casselman . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 875,132.00

Casselman-Cherry Creek . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Potomac . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 45,144.72

George's Creek . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1,241,732.90

 **TOTAL . . . . . . . . . . . . . . . . . . . 2,162,009.62**

|  |  |
| --- | --- |
|  | **2017 COAL PRODUCTION, MINING, AND RECLAMATION****STATISTICS BY PERMIT****FOR ALLEGANY & GARRETT COUNTIES\*** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  **ALLEGANY COUNTY** |
|  |  |  |  |  |  |  |
|  |  |  |  |  PRODUCTION (TONS) |  |
| Operator | Permit Number | Total Tonnage Mined by Permit | Coal Seam | Deep | Strip | Auger |
| Beechwood Coal, LLC | 359 | 0.00 | Pittsburgh |  | 0.00 |  |
|  |  |  | Morantown |  | 0.00 |  |
|  |  |  | Redstone |  | 0.00 |  |
|  | 393 | 165,068.86 | Pittsburgh |  | 111,498.07 |  |
|  |  |  | Redstone |  | 45,317.11 |  |
|  |  |  | Morantown |  | 8,253.68 |  |
|  | 439 | 244,152.17 | Bakerstown |  | 0.00 |  |
|  |  |  | Tyson |  | 13,649.78 |  |
|  |  |  | Sewickley |  | 18,366.00 |  |
|  |  |  | Pittsburgh |  | 121,928.45 |  |
|  |  |  | Waynesburg |  | 0.00 |  |
|  |  |  | Redstone |  | 79,953.90 |  |
|  |  |  | Morantown |  | 10,254.04 |  |
|  | 442 | 11,480.87 | Waynesburg |  | 11,480.87 |  |
|  |  |  | Little Pittsburgh |  | 0.00 |  |
|  |  |  | Morantown |  | 0.00 |  |
|  | 451 | 58,721.73 | Pittsburgh |  | 0.00 |  |
|  |  |  | Morantown |  | 0.00 |  |
|  |  |  | Redstone |  | 58,721.73 |  |
|  |  |  | Sewickley |  | 0.00 |  |
|  | 457 | 39,027.45 | Pittsburgh |  | 23,449.05 |  |
|  |  |  | Redstone |  | 15,464.29 |  |
|  |  |  | Morantown | 0.00 |  |
|  |  |  | Tyson | 114.11 |  |
|  | 462 | 1,115.95 | Redstone | 0.00 |  |
|  |  |  | Pittsburgh |  | 0.00 |  |
|  |  |  | Tyson |  | 1,115.95 |  |
| C & S Coal | 456 | 8,209.28 | Pittsburgh |  | 7,596.24 |  |
|  |  |  | Redstone |  | 613.04 |  |
| Cobra Mining | 437 | 26,891.41 | Pittsburgh |  | 26,480.17 |  |
|  |  |  | Morantown |  | 362.90 |  |
|  |  |  | Redstone |  | 48.34 |  |
| G & S Coal | 440 | 0.00 | Little Pittsburgh |  | 0.00 |  |
|  |  |  | Pittsburgh |  | 0.00 |  |
|  |  |  | Morantown |  | 0.00 |  |
|  |  |  | Franklin |  | 0.00 |  |
| Tri-Star Mining | 419 | 8,679.33 | Pittsburgh |  | 0.00 |  |
|  |  |  | Little Pittsburgh |  | 0.00 |  |
|  |  |  | Morantown |  | 0.00 |  |
|  |  |  | Redstone |  | 2,076.98 |  |
|  |  |  |  Sewickley | 6,602.35 |  |
|  |  |  | Waynesburg |  | 0.00 |  |
|  | 436 | 127,016.35 | Franklin |  | 0.00 |  |
|  |  |  | Little Pittsburgh |  | 53,644.67 |  |
|  |  |  | Pittsburgh |  | 58,906.46 |  |
|  |  |  | Redstone |  | 2,664.61 |  |
|  |  |  | Morantown |  | 11,800.61 |  |
|  |  |  | Sewickley |  | 0.00 |  |
| Walker Bros. Mining, Inc. | 453 | 89,245.65 | Pittsburgh |  | 34,392.96 |  |
|  |  |  | Morantown |  | 9,157.48 |  |
|  |  |  | Redstone |  | 45,695.21 |  |
| **TOTAL ALLEGANY COUNTY** |  | **779,609.05** |  | **779,609.05** |  |
|  |  **GARRETT COUNTY** |
|  |  |  | PRODUCTION (TONS) |  |
| Operator | Permit Number | Total Tonnage Mined by Permit | Coal Seam | Deep | Strip | Auger |
| ARJ Construction | DM111 | 216,784.40 | Barton | 216,784.40 |  |  |
|  | 463 | 64,336.77 | Lower Bakerstown |  | 64,336.77 |  |
| G & S Coal Company, Inc. | 421 | 0.00 |  Franklin | 0.00 |  |
|  | 435 | 11,470.78 | Bakerstown |  | 0.00 |  |
|  |  |  |  Barton | 6,328.08 |  |
|  |  |  | Harlem |  | 5,142.70 |  |
|  | 454 | 33,673.94 | Barton |  | 0.00 |  |
|  |  |  |  Harlem | 13,235.46 |  |
|  |  |  | Bakerstown |  | 20,438.48 |  |
|  | 455 | 0.00 | Harlem |  | 0.00 |  |
| MER, LLC | DM113 | 875,132.00 | Upper Freeport | 875,132.00 |  |  |
| Pine Mountain Coal Company | 424 | 7,398.99 | Pittsburgh |  | 2,833.58 |  |
|  |  |  | Morantown |  | 837.71 |  |
|  |  |  |  Redstone | 1,646.82 |  |
|  |  |  |  Franklin | 2,080.88 |  |
| Savage Mountain Minerals, Inc. | 445 | 0.00 | Little Pittsburgh |  | 0.00 |  |
|  | 446 | 213.12 | Sewickley |  | 213.12 |  |
|  |  |  | Morantown |  | 0.00 |  |
|  |  |  | Pittsburgh |  | 1,499.98 |  |
|  | 448 | 9,077.83 |  Barton | 0.00 |  |
|  |  |  | Pittsburgh |  | 0.00 |  |
|  |  |  | Franklin |  | 9,077.83 |  |
|  | 461 | 36,168.38 | Barton |  | 36,168.38 |  |
| Tri-Star Mining, Inc. | 419 | 128,144.36 | Pittsburgh |  | 61,755.06 |  |
|  |  |  | Little Pittsburgh |  | 44,668.13 |  |
|  |  |  | Redstone |  | 8,136.83 |  |
|  |  |  | Morantown |  | 11,950.80 |  |
|  |  |  | Barton |  | 0.00 |  |
|  |  |  | Sewickley |  | 1,633.54 |  |
| **TOTAL GARRETT COUNTY** |  | **1,382,400.57** |  | **1,091,916.40** | **290,484.17** |  |
|  |  |  |  |  |  |  |
| **TOTAL BOTH COUNTIES** |  | **2,162,009.62** |  | **1,091,916.40** | **1,070,093.22** |  |

|  |
| --- |
|  **SUMMARY OF LAND MINED, BACKFILLED, PLANTED, AND RELEASED** |
| **Allegany County** |  |  |  |  |  |  |
| **George's Creek Basin** |  |  |  |  |  |  |
| Mining Company | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres |  |
| Beechwood Coal, LLC | 359 | 0 | 0 | 0 | 0 |
| Beechwood Coal, LLC | 393 | 224 | 35 | 16 | 16 |  |
| Beechwood Coal, LLC | 439 | 0 | 9 | 0 | 0 |  |
| Beechwood Coal, LLC | 451 | 0 | 4 | 22 | 22 |  |
| Beechwood Coal, LLC | 457 | 0 | 2 | 3 | 3 |  |
| Beechwood Coal, LLC | 462 | 0 | 3 | 10 | 10 |  |
| C & S Coal Company | 456 | 0 | 3 | 0 | 0 |  |
| Cobra Mining | 437 | 18 | 6 | 0 | 0 |  |
| G&S Coal Company, Inc. | 440 | 0 | 3 | 0 | 0 |  |
| Ritchie Trucking & Excavating, Inc. | 40 | 0 | 0 | 0 | 0 |  |
| Tri-Star Mining, Inc. | 419 | 0 | 8 | 9 | 9 |  |
| Tri-Star Mining, Inc. | 436 | 49 | 6 | 0 | 0 |  |
| Vindex Energy Corporation | 432 | 0 | 0 | 0 | 0 |  |
| Beechwood Coal, LLC | 442 | 0 | 0 | 0 | 0 |  |
| Walker Brothers Mining, Inc. | 453 | 2 | 16 | 0 | 0 |  |
| **George's Creek Basin(Allegany County) Total** | **293** | **95** | **60** | **60** |
| **Garrett County** |  |  |  |  |  |  |
| **George's Creek Basin** |  |  |  |  |  |  |
| Mining Company | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres |  |
| ARJ Construction Company, Inc. | 111 | 0 | 0 | 0 | 0 |
| ARJ Construction Company, Inc. | 463 | 19 | 28 | 27 | 27 |
| Pine Mountain Coal Company | 424 | 0 | 0 | 0 | 1 |
| Savage Mountain Minerals | 445 | 0 | 0 | 1 | 6 |
| Savage Mountain Minerals | 446 | 0 | 0 | 26 | 0 |
| Savage Mountain Minerals | 448 | 10 | 0 | 0 | 0 |
| Savage Mountain Minerals | 461 | 0 | 31 | 0 | 16 |
|  |  |  |  |  |  |
| **George's Creek Basin(Garrett County) Total** | **29** | **59** | **54** | **50** |
|  |  |  |  |  |  |
| **Total for Georges Creek Basin in both Garrett & Allegany Counties** |  | **322** | **154** | **114** | **110** |
|  |  |  |  |  |  |
| **Garrett County** |  |  |  |  |  |
| **Casselman Basin** |  |  |  |  |  |
| Mining Company | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres |
| Maryland Energy Resources, LLC | 113 | 0 | 0 | 0 | 0 |
| **Casselman Basin Total** |  | **0** | **0** | **0** | **0** |
| **Potomac River Basin** |  |  |  |  |  |  |
| Mining Company | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres |  |
| Backbone Mountain, LLC | 112 | 0 | 0 | 0 | 0 |
| G&S Coal Company, Inc. | 421 | 0 | 0 | 0 | 0 |
| G&S Coal Company, Inc. | 435 | 0 | 14 | 0 | 0 |
| G&S Coal Company, Inc. | 454 | 0 | 4 | 5 | 0 |
| G&S Coal Company, Inc. | 455 | 0 | 0 | 0 | 0 |
| LAOC Corporation | 458 | 0 | 0 | 0 | 0 |
| Mettiki Coal, LLC | 101 | 0 | 0 | 0 | 0 |
| Vindex Energy Corporation | 459 | 34 | 66 | 0 | 99 |
| Wolf Run Mining Company | 109 | 0 | 0 | 0 | 0 |
| **Potomac River Basin Total** |  | **34** | **84** | **5** | **99** |
| **Youghiogheny River Basin** |  |  |  |  |  |
| Mining Company | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres |
| LAOC Corporation | 460 | 0 | 0 | 0 | 0 |
| **Youghiogheny River Basin Total** |  | **0** | **0** | **0** | **0** |
| **Total All Garrett County Basins** |  | **63** | **143** | **59** | **149** |
| **Total All Allegany County Basins** |  | **293** | **95** | **60** | **60** |
| **Total All Garrett & Allegany Basins** |  | **356** | **238** | **119** | **209** |
|  |  |  |  |  |  |

|  |
| --- |
|  |
|  **SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2017** |
| **(By Geological Basin)** |
| ACRES THIS YEAR |
|  |  |  |  |  |  |
|  | Permitted | Affected | Backfilled | Planted |  |
| **Allegany County:** |  |  |  |  |
| Georges Creek Basin | 293.00 | 95.00 | 60.00 | 60.00 |
| **Garrett County:** |  |  |  |  |
| Georges Creek Basin | 29.00 | 59.00 |  54.00 | 50.00 |
| Potomac River Basin | 34.00 | 84.00 |  5.00 | 99.00 |
| Casselman Basin\*\* |  0.00 |  0.00 |  0.00 | 0.00 |
| Cherry Creek Basin |  0.00 |  0.00 |  0.00 | 0.00 |
| Upper Yough Basin |  0.00 |  0.00 |  0.00 | 0.00 |
| Lower Yough Basin |  0.00 |  0.00 |  0.00 | 0.00 |
| TOTAL GARRETT COUNTY |  63.00 |  143.00 |  59.00 | 149.00 |
| TOTAL BOTH COUNTIES | 356.00 | 238.00 | 119.00 | 209.00 |
|  |  |  |  |  |
| ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2017 |
|  |  |  |  |  |  |
| **Allegany County:** |  |  |  |  |
| Georges Creek Basin | 9057.00 | 7903.00 | 6,492.00 | 6,796.00 |
| **Garrett County:** |  |  |  |  |
| Georges Creek Basin | 3436.00 | 3,086.00 | 2,746.00 | 2,985.00 |
| Potomac River Basin | 6,110.00 | 5,429.00 | 4,851.00 | 5,227.00 |
| Casselman Basin\*\* | 1,452.00 | 1,163.00 | 1,261.00 | 1,142.00 |
| Cherry Creek Basin\*\* | 667.00 | 672.00 | 579.00 | 546.00 |
| Upper Yough Basin | 230.00 | 157.00 | 215.00 | 189.00 |
| Lower Yough Basin | 1,335.00 | 921.00 | 1,145.00 | 1,088.00 |
| TOTAL GARRETT COUNTY | 13,230.00 | 11,428.00 | 10,797.00 | 11,177.00 |
| TOTAL BOTH COUNTIES | 22287.00 | 19,331.00 | 17,289.00 | 17,973.00 |

|  |
| --- |
| **2017 PERMITTING ACTIVITY** |
| **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**Permit Increments****Modifications****With Acreage****Modifications****Without Acreage****Transfers**Renewals**Prospecting Permits****Prospecting****Letter of Intent****Operator’s License****Original****Operator’s License****Renewals** | 121201710318 | 012226700318 | 50100 | 0114000005 | 1010120005 | 3000 | 0001040000 | 0000240000 | 000 | 1322511110323 | 1132291100323 | 30100 |
|  |  |  |  |
| **Totals** | **54** | **59** | **60** | **11** | **10** | **30** | **5** | **6** | **0** | **70** | **73** | **40** |

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

Mine Foreman and Fire Boss applicants examined and certified from 2000 through 2017:

|  |  |  |
| --- | --- | --- |
| YEAR | **APPLICANTS EXAMINED** **Mine Foreman Fire Boss** | **APPLICANTS CERTIFIED** **Mine Foreman Fire Boss** |
| 2017 | 0 0 |  0 0 |
| 2016 | 0 0 |  0 0 |
| 2015 | 0 0 |  0 0 |
| 2014 | 11 0 |  11 0 |
| 2013 | 0 0 |  0 0 |
| 2012 | 5 4 |  5 4  |
| 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 |

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

**INSPECTION AND ENFORCEMENT ACTIVITIES**

**2013-2017**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TYPE OF ACTION | **2013** | **2014** | **2015** | **2016** | **2017** |
| Inspections | 782 | 839 | 865 | 768 | 770 |
| Notices of Violations | 6 | 11 | 19 | 15 | 7 |
| Cessation Orders | 1 | 2 | 5 | 6 | 0 |
| Citizen Complaints | 31 | 20 | 26 | 18 | 15 |
| Bond Forfeitures | 0 | 0 | 0 | 1 | 0 |

# **LAND RECLAMATION COMMITTEE**

The following members served on the Land Reclamation Committee during 2017:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

Ed Larrimore, Chairman, MDE Land & Materials Administration

John E. Carey, MDE Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Jim Mullan, Wildlife Division

George Eberling, Forestry Division

Alan Klotz, Freshwater Fisheries

CITIZEN REPRESENTATIVES:

Margaret Jamison, Garrett County

Bill Pegg, Allegany County

COUNTY REPRESENTATIVES:

Jeff Barclay, Allegany County

Bill DeVore, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Adam Heavner, Allegany Soil Conservation District

Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Tim Schwinabart

Jim Ashby

**LAND RECLAMATION COMMITTEE FUNCTIONS AND DUTIES**

The Land Reclamation Committee is responsible for the approval of all reclamation plans submitted, as part of an application for a coal mining permit. The committee also oversees 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 2017, the Land Reclamation Committee conducted site visits on three days. These visits included field reviews of two proposed mining sites, and 17 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 2017, the Land Reclamation Committee met six times. During these meetings, the Land Reclamation Committee approved two reclamation plans for new mining areas. They also evaluated 333 acres of revegetation eligible for Phase II bond release, and approved 322 acres as meeting the standards for release. There were two reclamation plan changes during the year.

|  |
| --- |
| **Reclamation Results of Surface Mined Lands 2017** |
| **Bond Release Phase** | **Applicable Performance Standard** | **Acreage Released** |
| **Phase I** | * 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
 | 83 |
| **Phase II** | * 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
 | 322 |
| **Phase III** | * 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
 | 332 |

**2017 RECLAMATION AWARD**

**Permit SM-96-427 Vindex Energy, LLC**

This site was previously deep mined and strip mined prior to Vindex Energy, LLC beginning its mining operation at this site in 2006. An underground mine fire had spread throughout much of this site, which is located near Barton, Maryland. Abandoned highwalls from previous strip mining ringed the hillside. The 149-acre site was mined for 17 years. The mining and subsequent reclamation quenched the fire and eliminated the highwalls within the site. The site was reclaimed using the Forest Reclamation Approach. This style of reclamation prepares the surface of the site in a non-compacted condition and includes the planting of native hardwoods to establish a viable forest. The reduced compaction of the surface increases the survival rate and growth rate of the trees.

**Past Reclamation Award Winners\***

**Year** **Name of Company** **Permit**

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

2011 Mettiki Coal, LLC 428

2012 Tri-Star Mining, Inc. 434

2013 Vindex Energy Corporation 431

2014 Tri-Star Mining, Inc. 419

2015 Beechwood Coal, LLC 403

2016 Ritchie Trucking and Excavating, Inc. 040

\*Each year the Land Reclamation Committee selects a coal mining operation that has achieved outstanding reclamation on a permit site. The award is presented by the Committee.

**MINING PERMITS ISSUED BY YEAR AND PERMITTEE**

Permit Year

 No. 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 Glotfelty 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. \*\*

 41 2008 Ritchie Trucking & Excavating, Inc.

 (Reinstated in 2008)

 42 1958 Buffalo Coal Company, Inc.\*

 43 1958 Casey Construction Company\*\*

 44 1958 Sara-Ki Coal Company, Inc.\*

 45 1958 Yantus & Zubek Coal Company\*

 46 1958 Moran Coal Company\*

 47 1958 Casey Construction Company\*\*

 48 1958 Moran Coal Company\*

Permit Year

 No. Issued Permittee

 49 1958 Moran Coal Company\*

 50 1958 Sara-Ki Coal Company, Inc.\*

 51 1958 Laurel Creek Company, Inc.\*\*

 52 1958 D.B.&B. Coal Company\*\*

 53 1958 Moon and Sons\*

 54 1959 George L. Smith Contracting Company\*

 55 1959 The Georges Creek Lumber Company\*

 56 1959 Moran Coal Company\*

 57 1959 North Branch Coal Corporation\*

 58 1959 George Coal Company\*\*

 59 1959 Samuel Compton & Company\*\*

 60 1959 Hoover & White\*

 61 1959 Laurel Creek Company, Inc.\*\*

 62 1959 The Eddy Fuel Company\*\*

 63 1959 J.R. Thrasher Contracting & Stripping Co.\*

 64 1959 Pittsburgh Coal Company\*

 65 1959 Mineral Coal Company, Inc., of West Virginia\*

 66 1959 Laurel Creek Company, Inc.\*

 67 1959 The Georges Creek Lumber Company\*

 68 1959 Chelsie A. Liller\*

 69 1959 Casey Contracting Company\*\*

 70 1959 Pine Mountain Coal Company\*

 71 1959 Opel and Brenneman\*

 72 1959 The Georges Creek Lumber Company\*

 73 1959 P.&J. Coal Company\*

 74 1959 Casey Contracting Company\*\*

 75 1959 Goodwill Fuel Company\*

 76 1959 D.B.&B. Coal Company\*

 77 1960 Baughman Contracting Company, Inc.\*

 78 1960 P&K Coal Company\*

 79 1960 Morgan Contracting Company\*

 80 1960 Buffalo Coal Company, Inc.\*

 81 1960 Buffalo Coal Company, Inc.\*

 82 1960 Randall Robertson\*

 83 1960 Hoover & White\*\*

 84 1960 James E. George\*

 85 1960 B.M.W. Coal Company, Inc.\*

 86 1960 Casey Contracting Company\*\*

 87 1960 Beener Coal Company\*

 88 1960 Moran Coal Company, Inc.\*

 89 1960 D&K Coal Company\*

 90 1960 Brenneman Brothers\*

 91 1960 Mack Coal Company\*

 92 1960 Clarence Rodamar\*

 93 1960 James E. George\*

 94 1961 Casey Contracting Company\*\*

 95 1961 Winner Brothers\*

 96 1961 Moran Coal Company, Inc.\*

 97 1961 Big Vein Coal Company\*

 98 1961 Maryland Fuel Company, Inc.\*

 99 1961 Yantus-Zubek Coal Company\*

Permit Year

 No. Issued Permittee

100 1961 J.R. Thrasher Contracting & Stripping Co.\*

101 1961 Trefall Bros., Inc.\*

102 1961 Mack Coal Comany\*

103 1961 C.A. Liller Company\*

104 1961 Cross & Brumage Coal Company\*

105 1961 Beener Coal Company\*

106 1961 D&K Coal Company\*

107 1961 Mack Coal Company\*

108 1961 Yantus and Zubek\*

109 1961 Potomac Mining Company\*

110 1962 Casey Contracting Company\*

111 1962 Wilhelm Coal Company\*

112 1962 The Georges Creek Lumber Company\*

113 1962 Clark Coal Company\*

114 1962 Casey Contracting Company\*

115 1962 Casey Contracting Company\*

116 1962 Douglas Coal Company\*

117 1962 Red Lion Mining Corporation\*\*

118 1962 Ebensburg Coal and Clay Company\*

119 1963 James E. George\*

120 1963 Ebensburg Coal and Clay Company\*

121 1963 J.R. Thrasher Contracting & Stripping Co.\*

122 1963 Moran Coal Company, Inc.\*

123 1963 Buffalo Coal Company, Inc.\*

124 1963 J.R. Thrasher Contracting & Stripping Co.\*

125 1963 Win-More Mining & Construction Co., Inc.\*

126 1963 Beener Coal Company\*

127 1964 W.R. Nethken and Company, Inc.\*

128 1964 Mack Coal Company\*

129 1964 J.R. Thrasher Contracting & Stripping Co.\*

130 1964 J. Russell Cravener\*

131 1964 Chelsie A. Liller\*

132 1964 The Georges Creek Lumber Company\*

133 1964 Brenneman Brothers\*

134 1965 W.R. Nethken and Company, Inc.\*

135 1965 Richards and Parnell Coal Company\*

136 1965 William Brashear\*

137 1965 W.R. Nethken and Company, Inc.\*

138 1965 G&S Coal Company, Inc.\*

139 1966 J.R. Thrasher Contracting & Stripping Co.\*

140 1966 J.R. Thrasher Contracting & Stripping Co.\*

141 1966 Shallmar Coal Company, Inc.\*

142 1966 Randall Robertson\*\*

143 1966 Ace Drilling Coal Company, Inc.\*

144 1966 Beener Coal Company\*

145 1966 Clarence Rodamer\*

146 1967 Ginniman Coal Company\*

147 1967 Raymond A. Wolf Mining Company\*

148 1967 Menallen Coke Company\*

149 1967 Russel Shafer\*

150 1967 Homage Coal Co. (Emmett Duppstadt)\*

151 1967 Twin States Coal Company\*\*

Permit Year

 No. Issued Permittee

152 1967 M.F. Fetterolf Coal Company, Inc.\*

153 1967 Ebensburg Coal and Clay Company\*

154 1968 Raymond A. Wolf Mining Co. (UPRC)\*

155 1968 Michael Rostosky\*

156 1968 Ginniman & Ware Coal Company\*

157 1968 Harold H. Upole Coal Company\*

158 1968 T.G.&C. Coal Company, Inc.\*

159 1969 Clarence Rodamer Coal Company\*

160 1969 Michael Rostosky Coal Company\*

161 1969 Russel Shafer Coal Company\*

162 1969 Buffalo Coal Company, Inc.\*

163 1969 J.R. Thrasher Contracting & Stripping Co.\*\*\*

164 1969 Buffalo Coal Company, Inc.\*

165 1969 Union Coal Company\*

166 1970 Win-More Mining & Construction Co., Inc.\*

167 1970 Ginniman Coal Company\*

168 1970 Upperman Coal Company\*

169 1970 Frank Pulford\*\*

170 1970 Winner Bros. Coal Company, Inc.\*

171 1970 Russel Shafer\*

172 1970 The Chief Coal Company\*

173 1970 Mary Ruth Corporation\*

174 1970 Oakland Coal Company\*

175 1971 Bernard C. Drees\*

176 1971 Delta Mining, Inc.\*

177 1971 D&K Coal Company, Inc.\*

178 1971 T.G.&C. Coal Company, Inc.\*

179 1971 Emmett Duppstadt\*

180 1971 Somerset Excavating, Inc.\*

181 1971 Ayers Coal Company\*

182 1971 Delta Mining, Inc.\*

183 1971 Patriot Mining Company, Inc.\*

184 1971 Chief Coal Company\*

185 1971 Cobra Mining, Inc.\*

186 1971 Bessemer Iron & Coal Company\*

187 1971 Coal Lick Coal Company\*

188 1971 Phillips Big Vein Coal Company\*

189 1971 Ace Drilling Coal Company, Inc.\*

190 1971 Buffalo Coal Company, Inc.\*

191 1971 Buffalo Coal Company, Inc.\*

192 1971 Keystone Coal and Development Company

 (Liability Assumed by Garrett County Roads Department)

193 1971 Ace Drilling Company, Inc.\*

194 1972 Wilhelm Coal, Inc.\*

195 1972 M.F. Fetterolf Coal Company, Inc.\*\*\*

196 1972 Buffalo Coal Company, Inc.\*

197 1972 Bessemer Iron & Coal Company\*

198 1972 Grafton Coal Company\*

199 1972 Jet Fuel Coal Company\*

200 1972 Bessemer Iron & Coal Company\*

201 1972 Chief Coal Company\*

202 1972 Brashear Coal Company\*

Permit Year

 No. Issued Permittee

203 1972 Winner Bros. Coal Company, Inc.\*

204 1972 Mary Ruth Corporation\*

205 1972 Grafton Coal Company\*

206 1972 Chief Coal Company\*

207 1972 Upperman Coal Company\*

208 1972 United Energy Coal, Inc. \*\*

209 1973 Sanner Bros. Coal Company\*

210 1973 Delta Mining, Inc.\*

211 1973 Markat, Inc.\*

212 1973 Oakland Coal Company\*

213 1973 Bessemer Iron & Coal Company\*

214 1973 Clise Coal Company\*

215 1973 Inter-State Lumber Company\*

216 1973 Buffalo Coal Company, Inc.\*

217 1973 Brashear Coal Company\*\*\*

218 1973 Bernard Drees Coal Company\*

219 1973 Buffalo Coal Company, Inc.\*

220 1973 G&S Coal Company, Inc.\*

221 1974 Evans Coal Company\*

222 1974 Bridgeview Coal Company\*

223 1974 John Duckworth Coal Company\*

224 1974 Edward Mikel\*

225 1974 Delta Mining, Inc.\*

226 1974 Northwest Coal Company, Inc.\*

227 1974 Thrasher Coal Company\*\*

228 1974 Winner Bros. Coal Company, Inc.\*

229 1974 Bittinger Coal Company\*

230 1974 Charles M. Filsinger\*

231 1974 G&H Coal Company, Inc.\*

232 1974 Hi-Note, Inc.\*

233 1974 Buffalo Coal Company, Inc.\*

234 1974 Oliver Mining Company\*\*

235 1974 Clise Coal Company\*

236 1974 Markat, Inc.\*

237 1974 Delta Mining, Inc.\*

238 1974 Bridgeview Coal Company\*

239 1974 Burnham Coal Company, Inc.\*

240 1974 Highland Mining\*

241 1974 Buffalo Coal Company, Inc.\*

242 1975 Buffalo Coal Company, Inc.\*

243 1975 Hopwood Strip Mine, Inc.\*\*

244 1975 Ponderosa Coal Company, Inc.\*

245 1975 Markat, Inc.\*

246 1975 Phillips Coal, Inc.\*

247 1975 Lambert Coal Company\*

248 1975 United Energy Coal, Inc. \*\*

249 1975 Buffalo Coal Company, Inc.\*

250 1975 Cobra Fuels\*

251 1975 Laoc Coal Company\*

252 1975 Tower Resources, Inc.\*

253 1975 Phillips Coal, Inc.\*

254 1975 Pine Mt. Coal Company\*

Permit Year

 No. Issued Permittee

255 1975 T.G.&C. Coal Company\*

256 1975 Allegheny Mining Company\*

257 1975 Bridgeview Coal Company\*

258 1975 A&R Coal Company\*

259 1975 Clinton Coal Company\*\*

260 1975 Tower Resources, Inc.\*

261 1975 Yough Tree Farm\*

262 1975 Russel Shafer\*\*\*

263 1975 Northwest Coal Company\*\*

264 1975 Allegheny Mining Corporation\*

265 1975 Tri-Star Mining, Inc.\*

266 1975 Bittinger Coal Company\*

267 1975 Delta Mining, Inc.\*

268 1975 Bittinger Coal Company\*

269 1975 Clyde Marsh Coal Company\*

270 1975 Hungry Hollow Coal Company\*

271 1975 Clise Coal Company\*

272 1975 A&R Coal Company\*

273 1975 Action Mining, Inc.\*

274 1975 Win-More Mining & Construction \*

275 1975 Evans Coal Company\*

276 1975 Buffalo Coal Company, Inc.\*

277 1975 Buffalo Coal Company, Inc.\*

278 1975 Allegheny Mining Corporation \*

279 1976 Inter-State Lumber Company\*

280 1976 Buffalo Coal Company, Inc.\*

281 1976 Delta Mining, Inc.\*

282 1976 Rondell Company\*

283 1976 Phillips Coal, Inc.\*

284 1976 G&H Coal Company, Inc.\*

285 1976 Tower Resources, Inc.\*

286 1976 Clinton Coal Company\*\*

287 1976 Winner Bros. Coal Company, Inc.\*

288 1976 T.L. Moran, Inc.\*

289 1976 Delta Mining, Inc.\*

290 1976 Pine Mt. Coal Company\*

291 1976 Delta Mining, Inc.\*

292 1976 George Nolan\*\*

293 1976 Alexander Coal Co.\*

294 1976 Pine Mt. Coal Company\*

295 1976 Arlen Miller\*\*\*

296 1976 Action Mining, Inc.\*

297 1976 Bessemer Iron & Coal Company\*\*

298 1977 Oakland Coal Company \*

299 1977 Bittinger Coal Company\*

300 1977 Inter-State Lumber, Inc.\*

301 1977 Garbart Coal Company\*

302 1977 Pine Mt. Coal Company\*

303 1977 L.C. Coal Company, Inc.\*

304 1977 Ginniman Brothers Coal Company\*\*

305 1977 Buffalo Coal Company, Inc.\*

306 1977 Wood Products, Inc.\*

Permit Year

 No. Issued Permittee

307 1977 Bridgeview Coal Company\*

308 1977 T.L. Moran, Inc.\*

309 1977 Best Coal Stripping, Inc.\*\*

310 1977 Delta Mining, Inc.\*

311 1977 Oakland Coal Company\*

312 1977 Primrose Coal Company\*

313 1977 R.A.K. Coal Company, Inc.\*\*

314 1977 G&S Coal Company\*

315 1977 Wilhelm Coal, Inc.\*\*

316 1977 Clise Coal Company\*

317 1977 Brawal Mining, Inc.\*

318 1977 John R. Livingston\*\*

319 1977 Winner Bros. Coal Company, Inc. \*

320 1977 John Duckworth Coal Company\*

321 1977 Kelley Enterprises\*

322 1978 Delta Mining, Inc.\*

323 1978 Bridgeview Coal Company\*

324 1978 Ayers Coal Company\*

325 1978 John Duckworth Coal Company\*

326 1978 G&S Coal Company, Inc.\*

327 1978 Buffalo Coal Company, Inc.\*\*

328 1978 Buffalo Coal Company, Inc.\*

329 1978 Buffalo Coal Company, Inc. \*

330 1978 Winner Bros. Coal Company, Inc.\*

331 1978 Inter-State Lumber Company\*

332 1978 R.A.K. Coal Company\*\*\*

333 1978 Seneca Mining Company\*

334 1978 Westvaco Corporation\*

335 1978 Buffalo Coal Company, Inc.\*

336 1978 Inter-State Lumber Company\*\*

337 1978 Inter-State Lumber Company\*

338 1978 Kirby Energy, Inc.\*

339 1978 Vindex Energy Corporation\*

340 1978 Wilhelm Coal, Inc.\*

341 1978 Fetterolf Mining, Inc.\*

342 1979 Eastern Mining Systems, Inc.\*\*

343 1979 Primrose Coal Company\*

344 1979 L.C. Coal Company\*

345 1979 Bridgeview Coal Company\*

346 1979 Delta Mining, Inc.\*\*

347 1979 Inter-State Lumber Company\*

348 1979 Kelley Enterprises\*

349 1979 Schwinabart & Green, Joint Venture\*

350 1979 Wilhelm Coal, Inc.\*\*

351 1980 Bridgeview Coal Company\*

352 1980 Winner Bros. Coal Company, Inc.\*

353 1980 John Duckworth Coal Company\*

354 1980 Winner Bros. Coal Company, Inc.\*

355 1980 Brawal Mining, Inc.\*

356 1980 Hi-Note, Inc.\*

357 1980 G&S Coal Company, Inc.\*\*\*

358 1980 Richard Duckworth Coal Company\*

Permit Year

 No. Issued Permittee

359 1980 Bridgeview Coal Company\*

360 1980 Buffalo Coal Company, Inc.\*\*

361 2008 Beechwood Coal, LLC. (Reinstated)

362 1980 Buffalo Coal Company, Inc.\*

363 1980 Pamela Mines, Inc.\*\*

364 1980 Alpha Mining, Inc.\*

365 1980 Pamela Mines, Inc.\*\*

366 1980 John Duckworth Coal Company\*

367 1980 G&S Coal Company, Inc.\*

368 1980 Buffalo Coal Company, Inc.\*

369 1980 Buffalo Coal Company, Inc.\*\*

370 1980 United Energy Coal, Inc.\*\*

371 1980 Bittinger Coal Company\*

372 1982 Keystone Mt. Development Company\*

373 1982 Eagle Mining, Inc.\*

374 1982 John Duckworth Coal Company\*

375 1982 Kirby Energy, Inc. \*\*

376 1982 Winner Bros. Coal Company, Inc. \*

377 1982 Win-More Mining & Construction Company \*

378 1982 Jones Coal, Inc.\*\*

379 1982 Allegheny Mining Corporation\*

380 1982 Delta Mining, Inc.\*\*

381 1982 Masteller Coal Company\*

382 1982 Fairview Coal Company (Repermitted 399)\*

383 1982 Richard Duckworth Coal Company\*

384 1983 Pine Mt. Coal Company\*

385 1983 Allegheny Mining Corporation\*

386 1983 Evans Coal Company\*

387 1983 Winner Bros. Coal Company, Inc.\*

388 1983 Jones Mining, Inc.\*

389 1983 Hilltop Construction Company\*\*

390 1983 Fetterolf Mining, Inc.\*

391 1983 Winner Bros. Coal Company, Inc.\*

392 1983 C.J. Merlo, Inc.\*

393 1983 Oak Springs Coal Company\*

394 1984 Westvaco Resources, Inc.\*

395 1984 Patriot Mining Company, Inc.

396 1984 Action Mining, Inc.\*

397 1984 Stan-Jan Excavating, Inc.\*

398 1984 Allegheny Mining Corporation\*

399 1985 Michael R. McGowan\*

400 1985 Brashear Coal Company\*

401 1985 Fairview Coal Company

402 1985 Delta Mining, Inc.\*

403 1985 Buffalo Coal Company, Inc.\*\*\*

404 1985 Pine Mt. Coal Company\*

405 1985 T.D. Mining Company\*\*

406 2003 United Energy, Inc.\*\*

407 2008 Beechwood Coal,LLC

408 1986 Clise Coal Company

409 1986 Jones Coal, Inc.\*\*

410 1986 Patriot Mining Company, Inc.\*

Permit Year

 No. Issued Permittee

411 1986 Ritchie Trucking & Excavating

412 1986 Tri Star Mining, Inc.\*

413 1986 Buffalo Coal Company, Inc.\*

414 1987 J. Walter Wassell\*

415 1987 Jenkins Development Company

416 1987 John Duckworth Coal Company\*\*\*

417 1988 Buffalo Coal Company, Inc.\*

418 1989 United Energy Coal, Inc.\*\*

419 1989 Pine Mt. Coal Company\*

420 1989 Action Mining, Inc.\*

421 1989 Tri Star Mining, Inc.\*

422 1991 Tri Star Mining, Inc.\*

423 1991 Tri Star Mining, Inc.

424 1991 Pine Mt. Coal Company \*

425 1992 G&S Coal Company, Inc.

426 1992 Buffalo Coal Company, Inc. \*\*

427 1992 United Energy Coal, Inc. \*\*

428 1995 Pine Mt. Coal Company

429 1995 Tri Star Mining, Inc.\*

430 1996 Tri Star Mining, Inc.\*

431 1996 Vindex Energy Corp.

432 1997 Mettiki Coal, LLC

433 1997 Tri Star Mining, Inc.\*

434 1998 G&S Coal Company, Inc.

435 1998 Vindex Energy Corp.\*

436 1999 Vindex Energy Corp.

437 1999 Win-More Mining & Construction\*

438 1999 Tri Star Mining, Inc\*.

439 2000 G&S Coal Company, Inc.

440 2000 Tri-Star Mining

441 2001 Cobra Mining, Inc.

442 2001 Mountaineer Mining Corp.\*

443 2001 Vindex Energy Corp.

444 2001 G&S Coal Company, Inc.

445 2002 G&S Coal Company, Inc.

446 2002 Vindex Energy Corp.

447 2002 Vindex Energy Corporation

448 2003 Tri Star Mining, Inc.

449 2004 Moran Coal Company

450 2004 Moran Coal Company

451 2005 Jenkins Development Company

452 2005 Savage Mountain Minerals, Inc.

453 2005 Clise Coal Company

454 2006 LAOC Corporation

455 2006 Mountaineer Mining Corporation

456 2006 WPO, Inc.\*\*

457 2007 Walker Brothers Mining, Inc.

458 2007 G&S Coal Company, Inc.

459 2008 G&S Coal Company, Inc.

460 2009 C&S Coal Company

Permit Year

 No. Issued Permittee

461 2011 Beechwood Coal, LLC

462 2011 LAOC Corporation

463 2011 Vindex Energy Corporation

464 2012 LAOC Corporation

465 2013 Savage Mountain Minerals

466 2013 Beechwood Coal, LLC

467 2013 ARJ Construction Company, Inc.

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

Permit Year

 No. Issued Permittee

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 \*\*Bond Forfeited \*\*\*Inactive